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Special

Hospital Data by Geographic Area for Selected Diagnostic Groups, 1986 Aged Medicare Beneficiaries:

Volume 1



U.S. Department of Health and Human Services
Health Care Financing Administration
Office of Research and Demonstrations

Health Care Financing

Special

The Health Care Financing Administration (HCFA) was established to combine health financing and quality assurance programs within a single Agency. HCFA is responsible for the Medicare Program, Federal participation in the Medicaid program, and a variety of other health care quality assurance programs.

The mission of HCFA is to promote the timely delivery of appropriate and quality health care to the 29.0 million Medicare enrollees and the 21.6 million Medicaid recipients among the Nation's aged, disabled, and poor. The Agency must also ensure that program beneficiaries are aware of the services for which they are eligible, that those services are accessible and of high quality, and that Agency policies and actions promote efficiency and quality within the total health care delivery system.

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Hospital Data by Geographic Area for Aged Medicare Beneficiaries:
Selected Diagnostic Groups, 1986 is part of HCFA's efforts to provide the

Hospital Data by Geographic Area for Aged Medicare Beneficiaries: Selected Diagnostic Groups, 1986 is part of HCFA's efforts to provide the public with information on the use of Medicare-covered services and outcomes of treatment, and how these vary among different geographic areas. This report should be useful in promoting further understanding of the reasons for geographic variations in the use of services and in generating hypotheses for additional research.

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Volume 1

U.S. Department of Health and Human Services
Health Care Financing Administration
Office of Research and Demonstrations
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Introduction

beneficiaries who were not enrolled in health part of efforts of the Health Care Financing services and the outcomes of treatment. The maintenance organizations (HMOs) because information on the use of inpatient hospital and 30-day post-admission mortality for 14 experience of the 96.7 percent of Medicare information has been assembled to display This two-volume compilation of data is services and the outcomes of care received Volume 2 contains rates of hospitalization now the rates of use of inpatient hospital complete information is not available for post-admission mortality, and population contains rates of hospitalization, 30-day demographic characteristics and across mortality for 26 diagnostic groupings. procedures. The data reflect only the different geographic areas. Volume 1 Administration (HCFA) to provide by Medicare beneficiaries vary by HMO enrollees.

The data in Volume 1 are displayed for all discharges and for 11 diagnostic groups chosen for their importance in terms of frequency and health impact. Included in these 11 groups are heart disease, cancer, stroke, pneumonia and influenza, gallbladder disease, hernia of the abdominal cavity, and hip fracture. In most instances, diagnostic groupings here are defined using codes of the *International Classification of Diseases*, 9th Revision, Clinical Modification (ICD–9–CM), the same codes used in hospital and mortality data reported in publications by the National Center for Health Statistics. In addition, summary data

are presented for 15 diagnostic categories used in the Health Care Financing Administration (1988) publication Medicare Hospital Mortality Information, 1987 (Appendix B).

has been identified in the amounts of health services and in outcomes of care may reflect In previous research, substantial variation surgical services among Medicare beneficiaries residing in 13 large areas (i.e., medically appropriate. Variations in use of Wennberg, Freeman, and Culp (1987) have demographically. Wennberg and Gittelsohn States or parts of States). It is not known, services used in different geographic areas. dentified substantial differences in the use England. Chassin et al. (1986) found large differences in health status or in incidence differences in the use of both medical and of inpatient hospital services between the nowever, whether the variation in rates is of certain diseases among populations as among areas. Blumberg (1987) has found substantial differences in average health adjusting for age. Blumberg (1982, 1987) procedures among hospital areas in New reported morbidity. Chassin et al. (1987) nas also reported, however, that regional populations of New Haven and Boston, 1973, 1982) have also found significant status among metropolitan areas, after nysterectomy, prostatectomy, and other differences in use of inpatient hospital well as differences in practice patterns services do not parallel differences in despite the fact that they are similar variation in rates of tonsillectomy,

geographical variations in tonsillectomy rates reported that rates of tonsillectomy declined prostatectomy were reduced after physicians practicing in those areas were provided with the State average. However, in their studies, substantially in Vermont after feedback on was given to Vermont physicians. Similarly, endarterectomy, and upper gastrointestinal nformation on their rates compared with Keller (1987) has reported that, in certain Keller and Wennberg did not address the found evidence of inappropriate use of areas of Maine, high rates of lumbar beneficiaries. Wennberg et al. (1977) ssue of whether care became more ract endoscopy among Medicare aminectomy, hysterectomy, and coronary angiography, carotid appropriate in these areas.

These volumes contain more complete information on demographic and small-area variations in hospitalizations than has been available. The experience of the aged Medicare population in the entire United States is covered. Also, the population-based mortality rates provided can be studied in relation to variations in hospitalization rates. This information will be of interest to researchers, physicians, hospital administrators, peer review organizations, and policy analysts. These data will be useful for answering such questions as:

 What kinds of conditions are associated with the largest degrees of geographic variation? What conditions show relatively small geographic variation?

- Do areas that tend to have high rates of one type of surgery tend to have high rates of other kinds of surgery?
 - Do areas that have high rates of surgery have high rates of hospitalization for related medical conditions?
- What is the relationship between hospitalization rates and post-admission mortality rates?
- What is the relationship between hospitalization rates for a given condition and population mortality for the same condition?
 - How do rates of hospitalization and mortality vary by age, sex, and race?
 Which conditions and procedures exhibit the greatest variations by these demographic characteristics?

Some of these questions have been addressed in previous research, but with smaller and less comprehensive data bases than are available here. It is important to observe that hospitalization rates in high-rate areas may not be inappropriately high and, conversely, that hospitalization rates in low-rate areas may not be inappropriately low. Similarly, different rates of post-admission mortality may or may not be indicative of the quality of care received. To address such issues, additional information and analyses will be needed.

Methods

The data reported in this volume were derived primarily from the Medicare provider analysis and review (MEDPAR) file for calendar year 1986. Almost all hospitalizations of the elderly in short-stay hospitals are covered under Medicare. This file contains one record for each

included on each record. Date of death, obtained from the Medicare enrollment files, s appended to the record so that deaths can regardless of whether they used any services. be tracked after discharge from the hospital. diagnoses and procedures are coded using Skeleton Write-Off (HISKEW) file, which Medicare-covered stay in a short-stay hospital with a date of discharge in 1986. obtained from the 1986 Health Insurance including dates of the procedures). The Enrollment data for the aged Medicare diagnosis), and up to three procedures beneficiaries entitled during that year, population by State and county were he ICD-9-CM. State and county of The MEDPAR file contains dates of residence of the beneficiary are also admission and discharge, up to five diagnoses (including the principal contains a record on all Medicare

Management and Strategy (BDMS) estimates New York, and Oregon, claims are estimated overall, the degree of completeness varies by residents of North Carolina and the District States are estimated to be at least 95 percent from all inpatient hospital bills received in this file to be at least 95 percent complete. The 1986 MEDPAR file contains data to be 93-94 percent complete. All other Although the file is relatively complete estimates inpatient hospital claims for of Columbia to be only 87-90 percent December 1988. The Bureau of Data the Medicare Statistical System as of geographic area. Specifically, BDMS complete; for residents of Maryland,

Approximately 97 percent of persons 65 years of age or over are covered by Medicare. Only data from records of aged beneficiaries are included in this volume;

that is, records of disabled enrollees under 65 years of age and persons entitled to Medicare solely because of end stage renal disease (ESRD) have been excluded. In addition, aged beneficiaries with ESRD have been excluded. Aged non-ESRD beneficiaries comprise approximately 90 percent of the Medicare population.

Mortality data for all persons 65 years of age or over were obtained from the 1986 Mortality Statistics File, maintained by the National Center for Health Statistics. That file contains information taken from death certificates for every U.S. death in 1986. Causes of death, including underlying cause of death, are coded for every record, using the ICD–9-CM coding system. Age at death, included on the record, was used to identify all deaths occurring in the population aged 65 years or over.

of age or over were obtained from the U.S. Bureau of the Census, which estimated the number of elderly persons residing in each county in 1986, based on counts from the 1980 Decennial Census. To adjust the total deaths per 1,000 persons in each area for age and sex differences, population counts of the elderly in each county by age and sex were needed. These were available for 1985 but not for 1986. Therefore, the 1985 age and sex distribution of the elderly population by county was used in age and sex adjustments, as explained later.

Hospitalizations were assigned to diagnostic categories using the principal diagnosis recorded on the MEDPAR record. A list of the diagnostic categories and their definitions is contained in Appendix B. The diagnostic categories were selected for clinical coherence and to represent reasonably homogeneous groups of patients.

of abdominal cavity; diseases of gallbladder; have been prepared that contain information infarction; pneumonia and influenza; hernia 1987 hospital mortality data release (Health Care Financing Administration, 1988), plus trachea, bronchus, and lung; heart disease; The diagnostic categories were also defined and fracture of the neck of the femur. For diagnosis within that category and with a hospitalization and mortality rates at the to be broad enough to contain sufficient numbers of cases to estimate meaningful metropolitan statistical area (MSA) level. peritoneum; malignant neoplasms of the ischemic heart disease; acute myocardial each diagnostic category, separate tables The categories include those used in the on every hospitalization with a principal neoplasms of the digestive organs and the following: all cancers; malignant date of discharge in 1986.

Each Table 1 contains national data for the specific diagnostic group by age, sex, and race. Because of limitations in data collected by the Social Security Administration, data by race are shown separately only for white persons and black persons. However, the "All persons" category contains data on persons of other races as well.

Tables 2 and 3 contain data by area of residence of the beneficiaries rather than by place of service; that is, it is the beneficiary's residence that determines the geographic area to which a given hospital stay is assigned. Geographic areas are defined in two ways. In Table 2, the data are aggregated by metropolitan and rural areas within each State. In Table 3, the data are aggregated by MSA. MSAs are defined by the U.S. Bureau of the Census and consist

of one or more counties comprising a given metropolitan area.

The intent of this annotation is to

Tables 2 and 3 contain hospitalization and mortality data adjusted by age and sex. The adjusted data are controlled for differences between the local area and the United States with respect to the age and sex distributions of the populations. The age groups used for adjustment were 65–74 years, 75–84 years, and 85 years or over. The indirect method was used for adjustment. A description of the indirect method of adjustment can be found in Fleiss (1981). The direct method could not be used because of small numbers of hospitalizations for certain conditions in many local areas. Table 1, which contains national data by age, sex, and race, has unadjusted rates.

noted that such tests based on 1 year of data for testing the rate for significance could not be applied when the rate was zero. Hence, a rate of zero will never be annotated. A more Thus, they are not subject to sampling error. appropriate for sample data were performed. However, the rates could be thought of as a year-to-year fluctuations. The formula used thorough description of this process as well sample of data from one year out of many; indication of whether unusual values might The rates have been annotated with a plus or minus sign when the difference between an unusual value may simply be a chance data for 100 percent of the beneficiaries. The rates in this volume are based on significant at the .01 level. It should be be attributed to chance, statistical tests do not necessarily take account of all occurrence. To give the user a rough an area's rate and the U.S. rate was sources of variation that may cause as several cautions are discussed in

or low while taking into account the element There are at least two reasons for this. First, be meaningfully different for some purposes dependent on sample size. Large differences may not be statistically significant if sample with large samples, differences so small that a significance level of .01 or smaller may be they have no practical importance can show the current rate. In other words, a rate may sizes are small. Thus, the difference should not be uncritically dismissed. Alternatively, primarily in finding those areas most likely appropriate for the user whose interests lie one to anticipate the approximate value of to be extremes. However, for the user with highlight rates that may be unusually high especially if information on past rates led annotated nor automatically place undue even if it is not statistically significantly different from the norm at the .01 level. mportance on rates that are annotated. an interest in a particular area, a larger automatically ignore rates that are not significance level may be appropriate, Second, significance tests are heavily of chance. The user should neither up as statistically significant.

Figures of maps and boxplots have been created using rates from Tables 2 and 3. The maps display State-level rates. The States were grouped into four rate intervals such that each group contains about one-fourth of the States. The boxplots are described in the Appendix.

Explanation of table columns

Number of non-HMO enrollees—This is the total number of aged Medicare enrollees in the demographic category or residing in the geographic area as of July 1, 1986, who

were not enrolled in a health maintenance organization operating under a Medicare risk contract at any time in 1986. The reason for identifying non-HMO enrollees is that HCFA does not receive complete information on hospitalizations incurred by Medicare beneficiaries enrolled under HMO risk contracts. Therefore, complete information on hospital discharges is available only for non-HMO enrollees, and hospitalization and mortality rates were computed only for non-HMO enrollees.

Non-HMO enrollees as a percent of all enrollees—This is the ratio of non-HMO enrollees to the total number of Medicare enrollees times 100.

Number of discharges—This is the number of hospital discharges with a principal diagnosis of the specified condition among non-HMO beneficiaries in the demographic category or residing in the geographic area.

Discharges per 1,000 non-HMO enrollees—This is the number of hospital discharges per 1,000 Medicare enrollees not enrolled in HMOs.

occurring within 30 days of admission to the 1987, 1988). It differs in the following ways: occurred within 30 days of death, the death occurred within 30 days of death, the death measure of death rates is similar to but not was counted once for that condition. This 30-day post-admission deaths per 1,000 discharges-This is the number of deaths (Health Care Financing Administration, hospitalizations for different conditions was counted for each condition. If two hospitalizations for the same condition hospital-specific mortality data releases post-admission mortality used in the hospital per 1,000 discharges. If two the same as the measure of 30-day

• It is organized by residence of the patient and not by the hospital where care is rendered.

- It is not adjusted for all of the variables used to adjust mortality in the hospital mortality data release.
- It attributes 30-day post-admission mortality to each hospital stay in 1986 occurring within 30 days of death (with the exception of two hospitalizations for the same condition). For the hospital-specific data release, post-admission mortality is computed using only the last hospitalization in 1986.

Despite these differences, the post-admission mortality measure presented here may give some insight into the hospital-specific data. For instance, it can show whether hospitals with high or low rates of post-admission mortality are located in areas with similar patterns of overall population mortality.

non-HMO enrollees-This is the number of denominator of that rate is affected by local enrolled in an HMO. The numerator of this statistic is the same as the numerator in the previous column, but the denominator is all discharges, yielding a population-based rate of hospitalization-associated mortality. This Medicare non-HMO enrollees, not hospital interpretation of the 30-day post-admission 30-day post-admission deaths per 1,000 appropriate geographic area who were not practice patterns, such as the tendency to hospitalize certain types of patients who might not be hospitalized in other local Medicare enrollees residing within the death rate per 1,000 discharges. The deaths occurring within 30 days of admission to the hospital per 1,000 statistic is included to facilitate the

divided by 1,000. For example, in the tables over. No data appear in this column for the the condition reported on that table. In the ast column, which is headed "Total deaths U.S. Bureau of the Census. The numerator residing in the appropriate geographic area per 1,000 persons," contains the death rate of this rate consists of the total number of number of persons 65 years of age or over displaying hospital use for all cancers, the from cancer in the population 65 years or deaths with the same underlying cause as small area tables, the denominator is the Center for Health Statistics and from the conditions are never coded as underlying column contains data from the National fracture of neck of femur because those Total deaths per 1,000 persons-This causes of death according to the rules diagnostic groupings severe injury or designed for coding cause of death.

The deaths in this column did not necessarily occur to the same people as the post-admission deaths in the previous two columns did. The principal diagnosis for a hospital discharge for a person dying within 30 days of admission need not be the same as the underlying cause of death coded from the death certificate and reported in vital statistics. There are different rules for assigning principal hospital diagnosis and cause of death. Moreover, a person may be hospitalized for one condition and die from another.

The purpose of the last column is to provide a measure of the underlying population morbidity for the conditions presented. This measure of underlying morbidity may help in the interpretation of hospitalization rates and 30-day post-admission death rates. For example, a high population death rate from heart

high prevalence of heart disease in the area. hospitalization rate may reflect a relatively prevalence of this condition; thus, a high disease in an area may indicate a high

Table 1 were computed using 1986 data only. which yielded a slightly different population geographic area). The total deaths per 1,000 The total deaths per 1,000 persons in the To do age and sex adjustments for Tables 2 Tables 2 and 3 (the tables broken down by United States shown in Table 1 (the table and 3, it was necessary to use 1985 data, broken down by age, sex, and race) are persons in the United States shown in slightly different from those shown in death rate.

Specifically, these data may help clarify the about the use of inpatient hospital services These data on deaths per 1,000 persons should be useful in generating hypotheses and will indicate areas for future research. relationship between prevalence of illness and hospitalization rates.

Notes on table stubs

Table 1-Data on racial groups other than black subtotals do not add to overall totals substantial number of beneficiaries are of white and black are not shown separately because of small numbers and because a unknown race. Consequently, white and for the Medicare aged population.

Table 2—All beneficiaries in each State reside in either a metropolitan or rural metropolitan and rural subtotals add (nonmetropolitan) county. Therefore, State totals.

boundaries. Each MSA is listed under the State in which the majority of persons in that MSA reside. Data listed under a Table 3—Many MSAs cross State

specific MSA pertain to all residents of that other than the one where the MSA is listed necessarily add to statewide metropolitan MSA, including those residing in States Consequently, MSA subtotals do not area totals.

Percent of deaths associated with a hospitalization

30 days of admission per 1,000 discharges or In Tables C-1 and C-2 (Appendix C), the factors not necessarily directly related to the admission is shown. These data may help in death; in other areas, patients may be cared local patterns of medical practice and other might have a large effect on the number of heart attack and trauma victims who reach have a substantial impact on deaths within frequently be hospitalized near the time of the hospital while still alive and die in the hospices or at home. Such practices might and quality of emergency medical services for more frequently in nursing homes and per 1,000 enrollees. Similarly, the breadth mortality rates, which can be affected by quality of hospital care. For example, in some locales, terminally ill patients may percent of all area deaths in 1986 that occurred within 30 days of a hospital the interpretation of post-admission nospital.

(50.2) and lowest in the West (45.6). Among hospital admission was highest in the South slightly higher in rural areas (50.6 percent) than in metropolitan areas (47.0). Among the four census regions, the percentage of the individual States, Mississippi had the admission in 1986. The percentage was Nationwide, 48.0 percent of deaths occurred within 30 days of a hospital deaths occurring within 30 days of a

highest percentage of deaths within 30 days of a hospital admission (55.1 percent), and the District of Columbia had the lowest (33.8 percent).

Data tape

additional information about the public use available on a small area basis on a public use tape. Persons interested in obtaining The information used to compute the tape should contact the Bureau of Data rates presented in this volume will be Room 3-A-12, Security Office Park, Management and Strategy, Office of 6325 Security Boulevard, Baltimore, Statistics and Data Management, Maryland 21207

References

use standardized by reported morbidity. Medical Blumberg, M.: Regional differences in hospital Care 20(9):931-944, Sept. 1982.

age-adjusted health status. Medical Care Blumberg, M.: Inter-area variations in 25(4):340-353, Apr. 1987.

New England Journal of Medicine 314:285-290, Variations in the use of medical and surgical Chassin, M., Brook, R., Park, R.E., et al.: services by the Medicare population. Ian. 30, 1986.

Journal of the American Medical Association Chassin, M., Kosecoff, J., Park, R.E., et al.: variations in the use of health care services? Does inappropriate use explain geographic 258(18):2533-2542, Nov. 13, 1987.

Proportions. 2d ed. New York. John Wiley and Fleiss, J.L.: Statistical Methods for Rates and

Health Care Financing Administration: Medicare Hospital Mortality Information, 1986. HCFA Pub. No. 01–002. Health Standards and Quality Bureau. Washington. U.S. Government Printing Office, 1987.

Health Care Financing Administration: Medicare Hospital Mortality Information, 1987. HCFA Pub. Nos. 00640-00646. Health Standards and Quality Bureau. Washington. U.S. Government Printing Office, 1988.

Keller, R.: The Maine experience: What is effective—Education, a carrot, or a stick? Proceedings of the Quality of Care Research Symposium. Working Paper Series 87-4. Health Care Financing Administration. Baltimore, Md. Aug. 1987.

Wennberg, J., Blowers, L., Parker, R., and Gittelsohn, A.: Changes in tonsillectomy rates associated with feedback and review. *Pediatrics* 59:821–826, 1977.

Wennberg, J., Freeman, J., and Culp, W.: Are hospital services rationed in New Haven or over-utilized in Boston? *The Lancet* 1185–1189, May 23, 1987.

Wennberg, J., and Gittelsohn, A.: Small area variations in health care delivery. *Science* 182(4117):1102–1108, Dec. 14, 1973.

Wennberg, J., and Gittelsohn, A.: Variations in medical care among small areas. Scientific American 246(4):120-134, 1982.

Totals: All diagnoses combined

Medicare enrollees had 8.7 million short-stay hospitalizations in 1986, for a rate of 327.09 discharges per 1,000 enrollees. For these 8.7 mortality information are presented here for million persons 65 years of age or over were enrolled in Medicare's hospital insurance, or rate) was 79.6 deaths per 1,000 discharges, all hospital stays combined. In 1986, 27.6 million stays, the mortality rate within 30 Part A, program. Of these, about 900,000 persons, or 96.7 percent, were non-HMO organizations (HMOs) sometime in 1986. The vast majority, however, 26.7 million days of admission (i.e., the case fatality enrollees, whose hospital and mortality experience are shown in Table 1. These diagnostic groups, hospitalization and Before presenting data for specific were enrolled in health maintenance or nearly 8 percent.

According to data from U.S. vital records, maintained by the National Center for Health Statistics (shown in the last column of Table 1), the total 1986 death rate for persons aged 65 years or over was 51.02 deaths per 1,000 persons. The 30-day post-admission mortality rate was 26.05 deaths per 1,000 enrollees. Taken together, these facts indicate that about one-half of the aged who died in 1986 had been hospitalized within 30 days of death.

Age and sex patterns

Since Medicare was first implemented, there has been a higher proportion of women than men enrollees and an even

higher proportion of women in the older age groups. Despite the older age distribution for women, the overall hospital discharge rate has been consistently higher for men than women. In 1986, the overall hospital discharge rate for men was 354.81 discharges per 1,000 enrollees, about 15 percent higher than the 308.69 rate for women (Table 1). In each of the three age groups, the discharge rate for men was higher than the rate for women, ranging from 20 to 24 percent

Among the population aged 65 years or over, hospital use rises sharply with age for both men and women, the rate generally doubling from the age group 65–74 years to the age group 85 years or over. For men, the 1986 discharge rate rose from 291.78 discharges per 1,000 at age 65–74 to 567.97 at age 85 years or over. The corresponding figures for women were 242.18 discharges per 1,000 at ages 65–74 years and 473.42 at age 85 years or over.

The 30-day post-admission death rates per 1,000 discharges and per 1,000 enrollees were notably higher for men than for women in all age groups. For example, in the age group 65–74 years, the 30-day post-admission mortality rate per 1,000 discharges was 36 percent higher for men than for women (65.9 versus 48.3).

As is generally known, the mortality rate in the United States (deaths per 1,000 persons) has been consistently higher for men than for women. In 1986, in the age group 65–74, the rate for men was 77 percent greater than the rate for women

(37.01 deaths per 1,000 versus 20.91 deaths per 1,000). In the age group 75–84, the mortality rate for men was 62 percent greater than that for women, and in the oldest age group, 85 years or over, the rate for men was 27 percent greater.

Patterns by race

When Medicare was first implemented in 1966, hospital discharge rates were considerably higher for white enrollees than for black enrollees in all age groups. Over time, the rates became similar. As shown in Table 1, by 1986, the hospitalization rates for white persons and black persons were nearly equal across all age and sex groups. However, in the age group 85 years or over, the rates for white men were higher than those for black men.

The 30-day post-admission mortality rates per 1,000 discharges and per 1,000 enrollees were generally a little lower for white persons than for black persons within the same age and sex groups except for the oldest age group, 85 years or over. In that age group, post-admission mortality rates were lower for black persons. For example, there were 147.0 deaths per 1,000 discharges for black men 85 or over versus 161.8 deaths per 1,000 discharges for white men.

As shown in the last column of Table 1, the pattern of death rates for black and white persons was the same as the pattern for 30-day post-admission mortality rates. The numbers of deaths per 1,000 persons were generally a little lower for white than

black persons within the same age and sex groups. However, among persons 85 years or over, the rates were lower for black than white persons.

Variations by geographic area

Tables 2 and 3 contain data on utilization and mortality by geographic area. The tables are broken out by U.S. census region, division, and State. Data on metropolitan and rural areas within each State are shown in Table 2, whereas data at the metropolitan statistical area (MSA) level are shown in Table 3. Figures 1-4 were derived from the detailed data in these tables.

Discharge rates

As shown in Figure 1, two areas of the United States had high hospital discharge rates: the Southeast and four rural States in the Rocky Mountain and Great Plains areas: North Dakota, South Dakota, Montana, and Wyoming. States with the lowest discharge rates were scattered throughout the country. In 1986, the discharge rate by State ranged from a high of 443.70 discharges per 1,000 enrollees in Mississippi to lows of 223.71 discharges in Hawaii and 254.42 in Connecticut (Table 2). Thus, there was almost a twofold difference in the rate of hospitalization across the United States.

The variation in discharge rates across and within the U.S. census divisions is shown in the boxplots in Figure 2. The highest median rate was found in the East South Central Division, and the lowest median rate was in the Pacific Division. The greatest range in the within-division discharge rates was found in the South Atlantic Division.

Post-admission death rates

The variation in 30-day post-admission mortality rates per 1,000 discharges across the Nation is shown in Figure 3. No particular regional patterns predominate. The range in this case fatality rate by State was from a low of 59.6 post-admission deaths per 1,000 discharges in North Dakota to a high of 96.2 post-admission deaths per 1,000 discharges in Nevada.

Population death rates

The variation across the Nation in the 1986 mortality rates for persons aged 65 years or over is shown in Figure 4. States with the highest mortality rates were all found east of the Mississippi River. States with the lowest mortality were found west of the Mississippi River, with the exception of Florida. Mortality rates by State ranged from lows of 37.81 deaths per 1,000 persons in Hawaii and 43.92 deaths per 1,000 persons in North Dakota to highs of 56.59 deaths per 1,000 in the District of Columbia and 55.70 deaths per 1,000 in Delaware.

Correlations between rates

It has been hypothesized that areas with high hospitalization rates (high discharges per 1,000 enrollees) may tend to have relatively low rates of 30-day post-admission deaths per 1,000 discharges and, conversely, that areas with low discharge rates may tend to have high 30-day post-admission mortality rates. High hospitalization rates may reflect a less severe patient mix; low hospitalization rates may reflect a more severe patient mix and therefore have an impact on the case fatality rate. To test this

hypothesis, a correlation coefficient was calculated using the hospital discharge rates and 30-day post-admission mortality rates per 1,000 discharges for all 365 MSAs and rural areas. The result was a correlation coefficient of – .42, providing moderate support for the hypothesis just stated.

discharge rate and the 30-day post-admission rate per 1,000 enrollees is the product of the population. For example, compared with the (post-admission deaths per 1,000 discharges) The 30-day post-admission death rate per enrollees because their discharge rate is high. United States, some States have a high case New York, North Carolina, California, and Kentucky, Tennessee, Alabama, Mississippi, nto perspective. The post-admission death on hospital-associated deaths for an area's the combined effect of these two measures because their discharge rate is significantly death rate per 1,000 discharges. It reflects and Louisiana. The 30-day post-admission post-admission deaths per 1,000 enrollees low. This is the pattern for Connecticut, Hawaii. Alternatively, some States have understood when viewed along with the death rate per 1,000 discharges is better 30-day post-admission deaths per 1,000 1,000 enrollees is presented to help the low case fatality rate but a high rate of fatality rate but a low rate of 30-day This is the pattern for Pennsylvania, reader put the case fatality rate hospitalization rate.

Wide geographic variations in the hospital discharge rate have raised questions as to the extent to which these differences reflect practice patterns and/or underlying differences in the health status of the populations. A correlation coefficient was calculated using data on hospital discharge rates and the population mortality rates

(deaths per 1,000 aged persons) for all 365 MSAs and rural areas. The result was a correlation coefficient of .42, indicating a moderate relationship between the hospital use rate and the population death rate.

Urban-rural patterns

the rate of hospitalization was greater in the rural areas than in the MSAs combined. In in rural counties. In the Nation as a whole, than in the urban areas, likely reflecting in mortality rate per 1,000 discharges in each areas and the remaining 27 percent resided age or over lived in metropolitan statistical combined (316.97). In each census region, census region was lower in the rural areas non-HMO Medicare enrollees 65 years of the discharge rate per 1,000 enrollees was nearly 12 percent higher in the combined part a less severe patient case mix in the In 1986, approximately 73 percent of rural areas (353.58) than in the MSAs contrast, the 30-day post-admission rural areas.

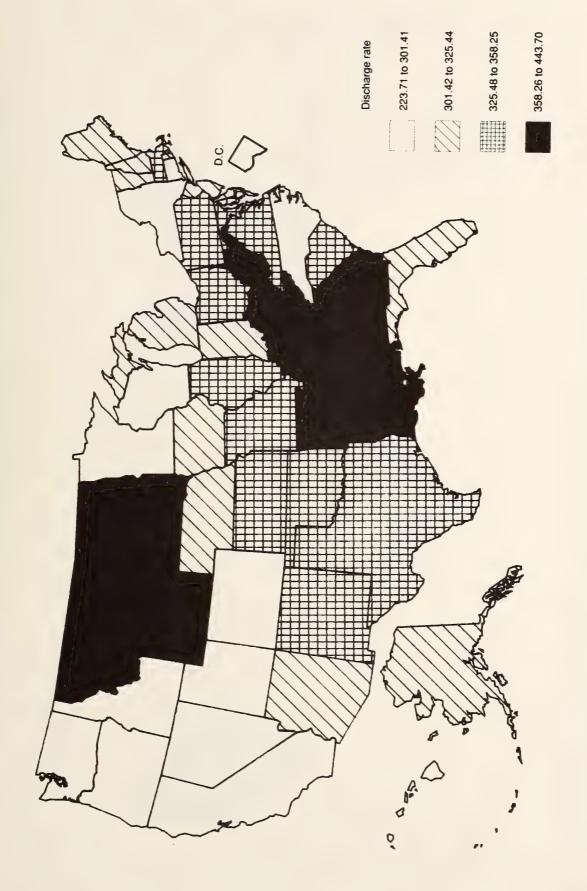
In the United States as a whole, the population death rate was slightly lower in rural areas (50.73) than in the MSAs combined (51.34). Examining the data by census region indicates that the number of deaths per 1,000 persons was virtually the same for rural areas as for the MSAs combined in the North Central Region, the death rate was lower in the rural areas (49.60) than in the MSAs combined (53.18). In the South, the reverse was true, with a higher death rate in the rural areas (52.07) than in the MSAs combined (50.67).

Table 1. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by age, sex, and race: United States, 1986

+	deaths per 1,000	51.02 28.01 63.48 153.98	59.97 37.01 83.52 181.85	44.92 20.91 51.51 142.97	51.00 27.41 63.11 156.38	59.79 36.34 83.41 185.75	45.02 20.32 51.08 145.02	56.13 36.98 73.38 134.51	67.61 47.90 92.91 154.88	48.43 28.92 61.49 125.10
mission deaths	Per 1,000 non-HMO enrollees	26.05 14.98 34.97 66.66	31.68 19.24 47.94 90.99	22.30 11.69 27.57 60.35	26.16 14.86 35.03 69.79	31. 48.28 44. 44.	22.39 11.55 27.55 61.09	28.00 17.92 36.95 63.82	33.51 22.45 48.44 76.98	24.35 14.52 30.22 26.22
30-day post-zdm	Per 1,000 discharges	79.6 56.8 87.3 137.6	89.3 65.9 104.9	72.3 48.3 74.9 127.5	79.6 56.2 87.1 138.3	899. 1045. 104. 109.	72.2 47.7 74.6 127.9	84.9 66.2 92.7 130.7	94.8 76.6 106.8 147.0	77.6 57.2 82.4 123.1
harges	Per 1,000 non-HMG enrollees	327.09 263.83 400.62 499.05	354.81 291.78 457.60 567.97	308.69 242.18 368.13 473.42	328.74 264.25 402.13 504.57	356.92 292.77 460.35 577.57	310.08 242.07 369.28 477.71	329.57 270.67 398.81 488.37	353.56 293.10 453.41 523.78	313.71 253.88 366.85 473.41
Disc	Number	8,732,875 4,264,188 3,213,125 1,255,562	3,779,054 2,058,900 1,332,696 387,458	4,953,821 2,205,288 1,880,429 868,104	7,749,763 3,754,285 2,869,016 1,126,462	3,351,813 1,820,018 1,184,930 346,865	4,397,950 1,934,267 1,684,086 779,597	656,484 328,329 232,678 95,477	280,298 152,210 97,666 30,422	376,186 176,119 135,012 65,055
nrollment	As percent of all enrollees	96.70 96.33 96.96	96.01 95.90 96.02 97.22	97.16 96.66 97.51 98.74	96.62 96.23 96.88 98.26	99999999999999999999999999999999999999	97.07 96.55 97.42 98.69	97.86 97.54 98.11	97.49 97.28 97.67 98.74	98.10 97.74 98.37 99.26
Non-HMD e	Number	26,698,924 16,162,594 8,020,447 2,515,883	10,650,991 7,056,445 2,912,366 682,180	16,047,933 9,106,149 5,108,081 1,833,703	23,574,066 14,207,064 7,134,499 2,232,503	9,391,016 6,216,472 2,573,989 600,555	14,183,050 7,990,592 4,560,510 1,631,948	1,991,943 1,213,014 583,429 195,500	792,788 519,305 215,401 58,082	1,199,155 693,709 368,028 137,418
	Age, sex, and race	A++ persons (1) 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over	White 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years of over	Women 65-74 years 75-84 years 85 years or over	Black 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over

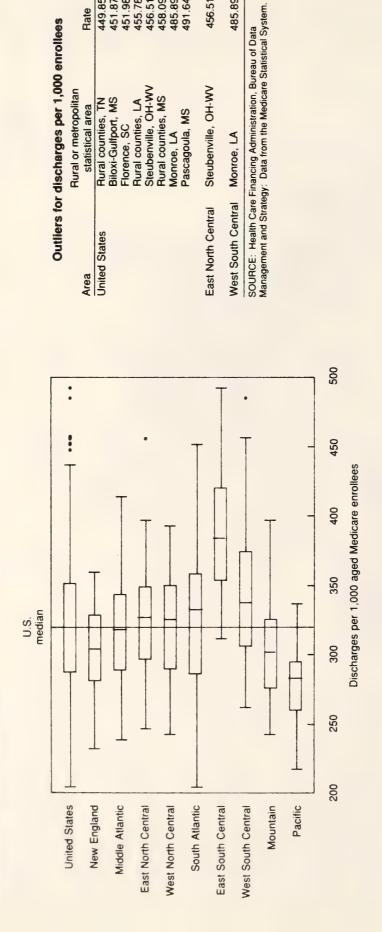
(1)Includes persons of other races in addition to white and black persons.
NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Figure 1. All diagnostic groups: Short-stay hospital discharges per 1,000 aged Medicare enrollees, by State: 1986



NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health mainteinance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

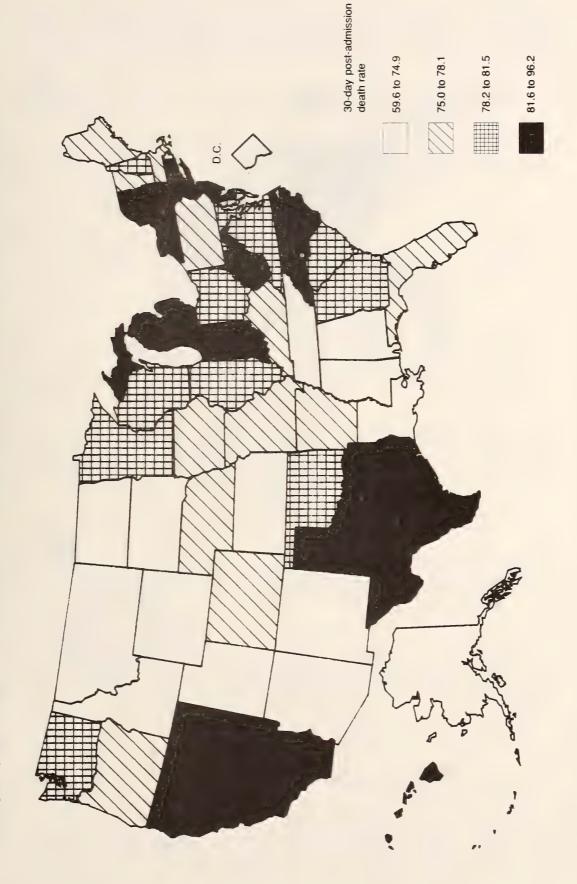
Figure 2. All diagnostic groups: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by division: United States, 1986



449.85 451.87 451.98 455.78 456.51 458.09 485.89

485.89 456.51

Figure 3. All diagnostic groups: Thirty-day post-admission deaths per 1,000 aged Medicare short-stay hospital discharges, by State: 1986



NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

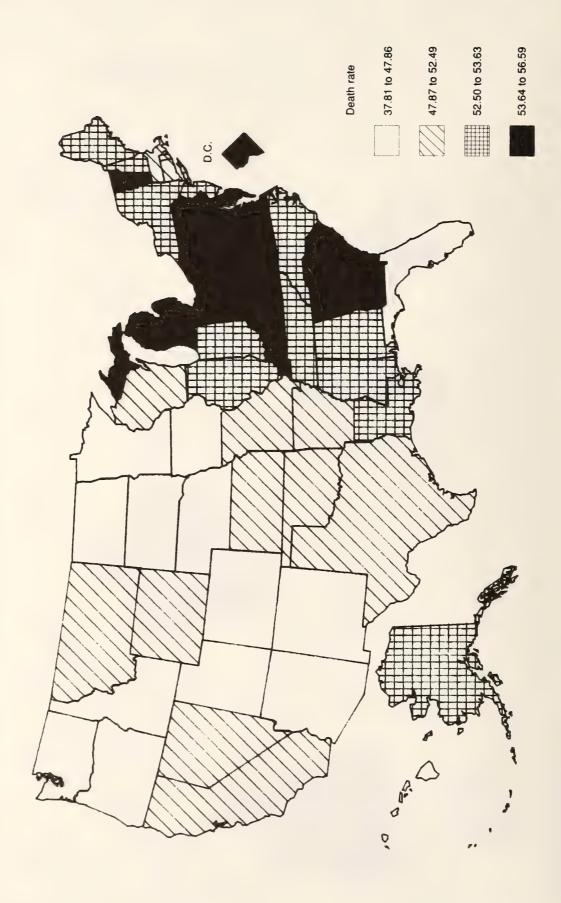


Figure 4. All diagnostic groups: Deaths per 1,000 aged population, by State: 1986

SOURCES: Population death rates were derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 2. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMG e	enroliment	Disch	9 1 9 6 5	30-day post-admi	ission deaths	4
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMO enrollees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000
United States	26,698,924	96.70	8,732,875	327.09	79.6	26.04	51.17
Metropolitan	19,363,284	95.80	6,123,746	316.97-	81.1+	25.73-	51.34+
Rural	7,335,640	99.16	2,609,129	353.58+	76.3-	26.85+	50.73-
Northeast	6,276,897	98.04	1,978,122	315.00-	80.9+	25.62-	53.18+
Metropolitan	5,564,648	97.84	1,730,424	310.89-	81.7+	25.57-	53.14+
Rurai	712,249	99.69	247,698	347.05+	75.0-	25.98	53.51+
New England	1,569,313	96.20	485,945	307.97-	79.6	24.71-	51.75+
Metropolitan	1,342,886	95.66	414,450	307.04-	80.2	24.85-	51.73+
Rurai	226,427	99.53	71,495	313.44-	76.1-	23.86-	51.85
Maine	153,209	99.88	49,240	318.29-	77.2	24.51-	53.11+
Metropolitan	82,345	99.89	25,449	306.86-		23.61-	53.02
Rural	70,864	99.66	23,791	331.52		25.53	53.21
New Hampshire Metropolitan Rural	114,752 74,135 40,617	98.98 98.55	36,104 22,563 13,541	314.20- 304.05- 332.71	81.5 85.5+ 75.1	25.59 25.82 25.16	53.50+ 54.62+ 51.41
Vermont	62,781	99.82	19,721	311.12-	77.5	24.11-	54.10
Metropolitan	10,422	99.91	3,082	293.75-	84.4	25.32	53.38
Rurai	52,359	99.80	16,639	314.57-	76.2	23.87-	53.85
Massachusetts	709,478	93.75	238,636	333.02+	78.0-	26.27	52.49+
Metropolitan	659,025	93.40	224,435	336.97+	78.2	26.69+	52.77+
Rurai	50,453	98.58	14,201	280.91-	73.1-	20.69-	48.39-
Rhode Island Metropolitan Rural	132,332 132,332 0	97.59 97.59 0.00	41,512 41,512 0	313.48- 313.48- 0.00	80.0 80.0	25.28 25.28 0.00	51.58 51.58 0.00
Connecticut	396,761	97.56	100,732	254.42-	84.3+	21.54-	48.97-
Metropolitan	384,627	97.50	97,409	253.84-	84.3+	21.51-	48.93-
Rurai	12,134	99.66	3,323	272.79-	84.3+	22.64	50.32
Middle Atlantic	4,707,584	98.68	1,492,177	317.36-	81.3+	25.93	53.68+
Metropolitan	4,221,762	98.55	1,315,974	312.12-	82.2+	25.80-	53.61+
Rural	485,822	99.76	176,203	362.84+	74.5-	26.99+	54.28+
New York	2,143,249	98.98	633,727	293.30-	82.8+	24.56-	52.91+
Metropolitan	1,922,371	98.89	557,041	287.43-	83.9+	24.42-	52.80+
Rural	220,878	99.75	76,686	344.38+	74.7-	25.82	53.88+

See notes at end of table.

Table 2. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

4	deaths per 1,000		53.63+ 53.63+	00.0	4.77	54.79+		1.86	53.18+		53.38+	4.08	3.5	64	5.0	3.41	3.62		2.45	2.06	53.77+	0.52	4.56	54.93+	3.35	9.6	50.55	8.2	85.85	50.31-	7.67	7.86	48.83-	
ssion deaths	Per 1,000 non-HMD		27.16+ 27.16+	0.00	7.09	26.92+	n n	6.42	27.03+		7	. 46	0.9	56	9.7	7.15	7.52	7.6	27.29+	7 80	. 6	27.35+	7 31	. ~	3	3.61	24.27-	2.62	5.08	25.55-	4.72	3.36	23.60-	•
30-day post-admi	Per 1,000	י אר וו מי ו	+6.98	0.0	6.7	77.2-	†	6	81.5+	7.0	1.3	82.7+	7.8		6	œ	9	3	84.6+	c	0.0	75.0-	4		77.8	80	81.1	4	5.7	77.6-	4.3	0	83.0 ⁺	
arges	Per 1,000 non-HMO		308.89-	0.00	53.91	349.20+	. 4. O	33.07	331.98+	0 h . h 0	33.58	332.50+	36.47	49.60	349.41+	50.24	21 13	18.7	325.31	4 F 70	30.50	364.36+	25.4	24.4	328.83	01.41	300.68-	02.49	21 07	330.13+	33.39	89.89	285.71-	30.06
Disch	4	L)	280,438		8,01	478,495	10°	313,18	1,459,281	302,40	580,47	1,142,746	437,72	38,99	-	97,04	00 74	6 7 F	72,986	00	30.22 22.66	115,564	17 03	40	77,835	86.27		74,29	22 71	316,535	16,18	8,79	55,223	0.0
roliment	e	earol ees	97.84	0.0	8.7	98.56		6.3	95.22	۲.	7.7	97.13	4	4	9.6	98.95	0		99.41		 	99.66	0		99.66	9	4	99.86	6	88.82	7.5	ω.	67.07	D
Non-HMO enrolim		Number	916,155	2	1,648,180	1,383,236	264,944	6,901,975	4,398,761	2,503,214	4,745,430	3,453,558	1,291,872	1.263.869	987.52	276,341	030 003	200,002	223,605		1,265,011	312,077	777	744 347	238,097	611.044	369.292	241,752	2 4 5 5 4 5	945,203	1,211,342	397,258	187,915	204, 343
		Area of residence	New Jersey	O	Pennsylvania	Ξ	- eLn2	Morth Central	Metropolitan	- eL ox	East North Central	Metropolitan	Rurai	0	Metropolitan		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		X = 1 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2		1	X = 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	4	Mo + 1000 III	Rural	E	Math 1000 - 1 than	Reral	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Made actions than	Rurai	E ====================================	Metropolitan	- w

Table 2. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division. State, and metropolitan and rural counties: United States, 1986

	Non-HMD e	enroliment	Disch	arges	30-day post-admi	ission deaths	4
Area of residence	Number	As percent of alt	# caber	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enroflees	deaths per 1,000 persons
Iowa	404,057	99.34	127,091	307.10-	76.8-	23.43-	47.66-
Metropolitan	136,818	98.24	44,616	322.22	77.8	24.98	49.41-
Rurai	267,239	99.09	82,475	299.51-	76.3-	22.66-	46.83-
Missouri	655,875	98.17	235,344	353.86+	77.2-	27.29+	52.20+
Metropolitan	383,255	96.99	138,010	356.48+	76.8-	27.41+	53.05+
Rural	272,620	99.88	97,334	350.21+	77.8	27.13+	51.01
North Dakota	85,433	98.28	33,008	376.54+	59.6-	22.55-	43.92-
Metropolitan	22,964	98.14	7,736	329.69	64.0-	21.13-	44.84-
Rurai	62,469	98.34	25,272	393.67+	58.2-	23.07-	43.58-
South Dakota	96,216	999.99.99.99.51	37,646	380.04+	63.9-	24.34-	46.22-
Metropolitan	20,427		7,291	353.22+	67.7-	23.81	47.11-
Rurai	75,789		30,355	387.09+	63.0-	24.48-	46.01-
Nebraska	209,910	98.52	67,840	313.58-	76.9-	24.26-	47.61-
Metropolitan	70,076	95.86	21,681	305.47-	78.5	23.92-	49.02-
Rural	139,834	99.91	46,159	317.54-	76.2-	24.41-	46.94-
Kansas	307,796	95.82	113,000	358.25+	73.8-	26.42	48.10-
Metropolitan	123,748	93.24	41,978	336.24+	76.4	25.62	48.50-
Rurai	184,048	97.63	71,022	372.67+	72.4-	26.93	47.86-
South	8,980,101	97.94	3,117,294	348.51+	78.7-	27.36+	51.17
Metropolitan	5,757,016	96.87	1,882,207	329.02+	79.7	26.17	50.67-
Rural	3,223,085	99.91	1,235,087	383.07+	77.2-	29.45+	52.07+
South Atlantic	4,668,855	96.31	1,511,522 1,042,313 469,209	326.68	79.8	26.04	50.63-
Metropolitan	3,313,125	94.94		316.92-	79.3	25.12-	49.71-
Rural	1,355,730	94.84		350.69+	81.0+	28.30+	53.00+
Delaware Metropolitan Rural	70,251 44,355 25,896	000 000 400 400 400	22,292 13,301 8,991	322.50 304.90- 352.62+	82.3 79.6 86.2	26.25 23.93- 30.21+	55.70+ 55.67+ 55.75+
Maryland	436,606	0 0 0 0	141,923	329.11	79.6	26.11	55.04+
Metropolitan	395,091	4 4 0	128,615	329.94	79.3	26.09	54.79+
Rurai	41,515	0 4 5 0	13,308	321.24	82.7	26.28	57.40+
District of Col.	66,196	99.75	18,460	274.32-	73.5-	19.62-	56.59+
Metropolitan	66,196	99.75	18,460	274.32-	73.5-	19.62-	56.59+
Rural	0	0.00	0	0.00	0.0	0.00	0.00

See notes at end of table.

Table 2. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	deaths per 1,000 persons	54.16+ 54.38+ 53.79+	55.59+ 55.74+ 55.50+	52.61+ 52.05 53.17+	54.59+ 54.93+ 54.15+	55.22+ 55.63+ 54.72+	44.97- 44.90- 45.60-	53.68+ 54.02+ 53.36+	54.63+ 54.71+ 54.57+	53.22+ 53.51+ 52.75+	53.61+ 54.28+ 52.61+	53.31+ 53.66+ 53.22+
ission deaths	Per 1,000 non-HMO enrollees	26.63+ 25.73 28.11+	31.65+ 32.02+ 31.44+	24.48- 22.88- 26.10	27.22+ 26.09 28.69+	30.46+ 29.43+ 31.73+	24.27- 24.15- 25.22	29.76+ 28.08+ 31.43+	30.65+ 28.07+ 32.58+	29.65+ 27.88+ 32.54+	28.53+ 28.30+ 28.88+	30.57+ 28.22+ 31.23+
30-day post-admi	Per 1,000 discharges	78.8 80.7 76.2-	88.6+ 05.7+ 04.0+	92.1+ 92.8+ 91.6+	4.00.00	79.6 82.0+ 77.0-	75.71	74.4- 76.9- 72.3-	76.00 70.00 70.00	74.9- 76.5- 72.6-	76.81	70.0- 72.7- 69.3-
arges	Per 1,000 non-HMD enrollees	337.69+ 319.66- 367.77+	378.82+ 377.17+ 379.79+	265.53- 246.93- 284.42-	346.04+ 333.57+ 362.38+	385.44+ 361.85+ 414.99+	318.83- 316.24- 339.83+	403.42+ 368.74+ 438.55+	399.81+ 356.18+ 432.92+	398.02+ 366.36+ 449.85+	387.55+ 373.88+ 408.60+	443.70+ 394.05+ 458.09+
Disch	X under	188,780 111,730 77,050	92,245 33,950 58,295	179,660 84,168 95,492	110,907 60,603 50,304	213,247 111,320 101,927	544,008 480,166 63,842	696,404 320,243 376,161	169,194 65,057 104,137	218,279 124,720 93,559	178,716 104,492 74,224	130,215 25,974 104,241
enroliment	As percent of all enrollees	99.91 99.87 99.97	98.98 97.39 99.95	ლ თ დ თ თ თ თ თ თ	999 999 44.009 590 590	999 999 740 440 93	90.97 90.04 99.17	99.80 99.64 49.99.	99.70 99.37 99.96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	89 89 50 50 50 50 50 50 50 50
Non-HMD el	Number	566,135 355,193 210,942	244,259 90,704 153,555	589,138 346,905 342,233	329,020 186,873 142,147	561,716 313,319 248,397	1,705,534 1,514,489 191,045	1,726,272 873,594 852,678	422,657 183,264 239,393	550,327 342,007 208,320	463,131 281,960 181,171	290,157 66,363 223,794
	Area of residence	Virginia Metropolitan Rural	West Virginia Metropolitan Rural	North Carolina Metropolitan Rural	South Carolina Metropolitan Rural	Georgia Metropolitan Rural	Florida Metropolitan Rural	East South Central Metropolitan Rural	Kentucky Metropolitan Rural	Tennessee Metropolitan Rural	Alabama Metropolitan Rural	Mississippi Metropolitan Rural

Table 2. All diagnoses: Enrollment, short—stay hospital discharges, and post—admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

, et	deaths	50.52- 50.96 49.89-	51.32 52.71 50.69	52.67+ 53.21+ 51.76	51.01 50.83 51.18	49.61- 50.23- 48.31-	47.72- 47.03-	46.82- 46.67- 47.08-	48.32- 48.09-	47.57- 46.18- 47.85-	50.45 50.99	47.34- 47.70- 46.24-
ssion deaths	Per 1,000 non-HMO enrollees	28.09+ 27.29+ 29.26+	29.09+ 27.26 29.91+	29.69+ 29.15+ 30.63+	28.44+ 27.02 29.69+	27.31+ 26.85+ 28.31+	23.48- 23.74- 22.42-	22.74- 22.62- 22.91-	23.67- 23.25- 23.79-	21.00- 16.64- 21.87-	26.70 24.72 27.49	21.74- 22.24- 20.23-
30-day post-admi	Per 1,000	9.60	77.8 79.3 77.2-	77.0-	80.0 81.2 79.1	88 8 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80.2 81.8+ 73.7-	74.7-77.4-71.0-	64.3- 64.3-	72.3- 70.0 72.6-	71.0-72.9	76.3-75.3
harges	Per 1,000 non-HMD	50.8 32.4 78.9	375.45+ 345.41+ 389.13+	410.64+ 385.23+ 455.78+	354.66+ 332.58+ 374.39+	327.48 317.18- 350.50+	292.36- 289.18- 305.36-	305.42- 293.05- 323.86-	365.64+ 349.56+ 370.08+	293.90- 242.21- 304.27-	375.994 340.43 390.27+	285.35- 289.65- 272.15-
Disch	2 2 2 2 2	9,36	121,460 34,943 86,517	171,431 102,897 68,534	135,854 60,116 75,738	480,623 321,695 158,928	1,324,270 1,051,834 272,436	363,471 208,807 154,664	35,594 7,355 28,239	32,198 4,435 27,763	15,941 4,135 11,806	76,237 58,362 17,875
enrollment	As percent of all	99.74 99.59	999 999 999 999	885 556 566 566	888 00.886 00.666	99.81 99.73 99.97	93.08 91.96 97.88	94.36 92.10 97.98	99.90 99.90 99.91	99.77 99.90 99.74		94.73 95.23 93.22
Non-HMD e	2	2,584,974 1,570,297 1,014,677	321,739 100,966 220,773	415,968 268,137 147,831	378,716 180,038 198,678	1,468,551 1,021,156 447,395	4,539,951 3,642,859 897,092	1,200,638 720,893 479,745	97,248 21,173 76,075	109,822 18,471 91,351	42,408 12,265 30,143	266,663 201,737 64,926
	0 0 0 0 0 0 0 0	West South Cen Metropolita Rurai	Arkansas Metropolitan Rural	Louisiana Metropolitan Rurał	Oktahoma Metropolitan Rural	Texas Metropolitan Rurai	West Metropolitan Rurai	Mountain Metropolitan Rurai	Montana Metropolitan Rural	Idaho Metropolitan Rurai	Wyoming Metropolitan Rural	Colorado Metropolitan Rurai

See notes at end of table.

Table 2. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

÷	deaths per 1,000 persons	45.22- 45.74- 44.82-	44.83- 44.68- 45.35-	47.11- 47.32- 46.56-	51.83 51.78 52.02	47.86- 47.97- 46.97-	47.43- 47.72- 46.45-	47.16- 47.28- 46.93-	48.36- 48.34- 48.72-	53.00 54.09 52.45	37.81- 37.59- 38.40-
mission deaths	Per 1,000 non-HMD enrollees	23.76- 22.03- 24.93	22.75- 22.91- 22.27-	20.01- 19.87- 20.38-	28.29+ 28.71+ 26.76	23.74- 24.01- 21.86-	22.09- 22.26- 21.56-	20.32- 20.24- 20.45-	24.63- 24.68- 23.91-	20.15- 22.83 18.90-	19.45- 19.57- 19.17-
30-day post-adm	Per 1,000 discharges	71.4- 73.3- 70.3-	74.9- 76.0- 71.9-	74.8- 77.7 68.4-	96.2+ 97.0+ 93.2+	82.2+ 82.9+ 77.2-	79.4 81.1 74.5-	78.1 80.8 74.2-	83.2+ 83.2+ 82.3+	66.5- 73.5 63.1-	886.1 88.2 4.1 81.4
charges	Per 1,000 non-HMD enrollees	330.59 297.05- 353.74+	304.84- 302.69- 311.06-	272.72- 261.35- 302.56-	292.63- 295.14- 283.44-	287.71- 288.23- 284.04-	279.45- 275.41- 291.69-	262.72- 253.39- 276.88-	294.25- 294.53- 289.85-	308.91- 312.18 307.26-	223.71- 218.81- 235.91-
Disc	Number	41,295 15,156 26,139	104,395 76,986 27,409	34,866 24,197 10,669	22,945 18,181 4,764	960,799 843,027 117,772	129,107 95,668 33,439	80,081 46,558 33,523	728,965 686,741 42,224	4,848 1,639 3,209	17,798 12,421 5,377
enrollment	As percent of all end	92.49 85.86 97.76	991.33 89.31 98.31	0 0 0 0 0 0 0 0 0 0 4 0	86.15 84.73 91.83	92.62 91.93 97.77	92.41 90.86 97.42	89 89 89 60 89 80 80 80 84 80 73	93.71 93.36 99.57	99.78 99.75 99.80	83.64 83.31 84.47
Non-HMD	≈ c ∃ D e ⊓	125,371 51,612 73,759	348,748 257,931 90,817	128,579 93,319 35,260	81,799 64,385 17,414	3,339,313 2,921,966 417,347	461,706 346,977 114,729	303,778 181,677 122,101	2,477,248 2,330,007 147,241	16,348 5,625 10,723	80,233 57,680 22,553
	A O B O C O C O C O C O C O C O C O C O C	New Mexico Metropolitan Rural	Arizona Metropolitan Rural	Utah Metropolitan Rural	Nevada Metropolitan Rurai	Pacific Metropolitan Rural	Washington Metropolitan Rurai	Oregon Metropolitan Rural	California Metropolitan Rural	Alaska Metropolitan Rural	Hawaii Metropolitan Rural

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (P<.O1). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 3. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State and metropolitan statistical area: United States. 1986 deaths per 1,000 persons 48.97-48.97-49.93-49.88 53.11+ 55.89 54.25 51.89 53.50+ 55.18+ 53.78 54.10+ 55.38 52.49+ 53.03+ 50.70 52.16 53.63+ 52.39 53.18+ 51.75+ 51.17 30-day post-admission deaths Per 1,000 non-HMD enrollees 21.54-21.21-21.98-20.61-23.24-24.11-25.32 24.51-25.57 23.71 22.99-26.27 26.30 25.78 28.73 27.17 24.71-25.59 25.49 26.32 26.04 25.62-25.28 25.28 Per 1,000 discharges 81.5 84.0 87.7+ 78.0-76.0-84.4 81.7 86.6+ 84.3+ 80.7 83.7+ 89.4+ +6.08 77.2 85.7 73.2 75.9 77.5 80.3 9.61 9. 79. Per 1,000 non-HMO enrollees 314.20-306.17-300.83-333.02+ 342.31+ 302.90-344.45+ 311.47-359.07+ 313.48-313.48-254.42-260.41-261.19-230.54-276.04-318.29-298.88-328.91 303.65-311.12-293.75-315.00-307.97-327.09 Discharges 238,636 149,147 19,763 7,034 22,568 25,923 25,190 40,956 23,709 7,554 41,512 49,240 4,832 4,469 16,148 36,104 13,659 8,904 19,721 Number 8,732,875 1,978,122 485,945 As percent enrollees 98.98 97.91 99.52 93.75 95.67 98.67 91.00 79.57 97.56 96.63 99.16 95.31 99.88 99.82 97.59 97.59 96.70 of all 98.04 96.20 enroliment Non-HMD 709,478 429,794 65,540 20,281 72,225 71,185 153,209 16,035 13,464 52,846 114,752 44,397 29,738 62,781 132,332 396,761 96,911 157,139 102,964 27,613 1,569,313 Number 26,698,924 6,276,897 崖 Lewiston-Auburn, Portland, ME New Hampshire Manchester, NH Portsmouth, NH New Bedford, MA Fittsfield, MA Springfield, MA Worcester, MA Area of residence Connecticut Bridgeport, CT Hartford, CT New Haven, CT New London, CT Massachusetts Burlington, VT Rhode Island Providence, RI United States New England Boston, MA Bangor, ME Vermont Northeast Maine

See notes at end of table.

Table 3. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State and metropolitan statistical area: United States, 1986

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enrollees and United States, Total deaths per 1,000 554.64+ 554.92+ 551.92+ 555.34+ 555.22+ 54.54+ 54.54+ 54.54+ 54.54+ 54.54+ 553.62+44.655.23+44.655.24.44.657.71+4.653.364.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.653.36+4.0553.36+4.0553.36+4.055 552.96 551.67 551.65 551.65 552.48 553.44 553.44 553.44 553.67 51.86+ 53.38+ 3. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare death rate for the aged population, by census region and division, State and metropolitan statistical area: 30-day post-admission deaths Per 1,000 non-HMO enrollees 27.56+ 25.98 25.98 28.51+ 28.71+ 26.00+ 30.60+ 23.47-28.56 24.56+ 27.89+ 27.89+ 27.89+ 27.52+ 30.65+ 25.00-27.30-27.30-30.00+ 28.96+ 24.55-28.55-28.61-28 27.89+ 28.22 28.22 23.19 28.32+ 27.75 20.47+ 30.47+ 26.93 27.71 26.42+ 27.07+ Per 1,000 discharges 79.5 885.9+ 881.2 79.6 880.4 79.8 70.8-72.8-745.6 86.3+ 86.80+ 991.5 777.7 777.7 882.7 886.9 886.9 93.5+ 93.5+ 93.5+ 94.7 7+ 81.3+ 79.5 Per 1,000 non-HMO enrollees 349.60+ 347.12+ 357.17+ 350.35+ 328.72+ 328.19 328.19 369.31+ 339.69 289.28-456.51+ 456.51+ 352.30+ 321.13-358.49+ 277.30-271.20-312.41-285.43-347.25+ 323.07 388.73+ 312.12-289.112-289.61-345.78+ 311.20-299.102+ 336.04+ 374.08+ 355.92+ 385.92+ 380.77+ 380.77+ 380.77+ 333.07+ 333.58+ Discharges 438,991 26,013 16,791 57,526 83,622 33,655 10,621 10,621 4,352 23,839 199,741 6,099 72,198 72,198 110,803 110,761 8,253 8,217 8,178 3,236 4,253 6,587 5,864 438,226 20,44,501 20,34,501 41,301 112,150 114,150 115,000 1,580,470 Number 2,313,189 As percent of all enrollees 96.39 enroliment OM H- HO 1,263,869 151,895 159,407 242,585 121,39,407 103,547 103,547 103,547 115,230 115,230 70,660 69,319 623,062 17,198 17,198 17,198 34,544 34,545 611,160 118,407 111,228 13,170 19,585 ,265,011 12,946 120,946 120,946 15,133 15,099 28,099 28,099 28,099 43,099 43,099 43,099 6,901,975 Number 4,745,430 Akron, OH Canton, OH Cincinnati, OH-KY-IN Cleveland, OH Dayton, OH Hamiton, OH Lima, OH Anderson, IN
Broomington, IN
Erhart-Goshen, IN
Evansville, IN-KY
Fort Wayne, IN
Gary-Hammond, IN
Indianapolis, IN Mansfield, OH Steubenville, OH-WV East North Central Aurora-Elgin, IL Bloomington, IL Champaign, IL Chicago, IL Decatur, IL Lafayette, IN Muncie, IN South Bend, IN Terre Haute, IN Area of residence Kankakee, IL Lake County, IL I Youngstown, OH Peoria, IL Rockford, IL Springfield, 1 North Central oledo, OH Illinois Indiana Ohio Table total 1936

See notes at end of table.

Table 3. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State and metropolitan statistical area: United States, 1986

t t	deaths per 1,000 persons	44040 0.00000	55.00 54.00 54.00 51.00 53.10 53.10 59.00 50 50 50 50 50 50 50 50 50 50 50 50 5	444 444 444 552 552 652 653 653 653 653 653 653 653 653	48	44.66- 48.066- 51.55 52.18 52.18 48.34 48.31
ission deaths	Per 1,000 non-HMD enrollees	F 4 0 0 0 0	28.95+ 24.17 23.68 24.17 26.36 5.67	23.61- 25.50 22.31- 23.78 23.72 26.29 18.22- 25.64 26.44	25.08- 23.36- 26.44- 23.92- 18.46- 21.67-	23.43- 28.93+ 24.40 17.93- 25.91
30-day post-admis	Per 1,000 discharges	4	883.7 7.83.6 888.7.7 980.8 7.09	78.5 73.5 73.5 73.5 88.1 68.6 68.6 94.9 94.9 94.9	75.7- 80.7 95.1+ 83.0 61.7- 76.3	76.8- 83.4 76.9 78.6 74.8 73.3
arges	Per 1,000 non-HMD enrollees	25.47 97.90 97.90 36.23	350.42+ 248.44- 3265.06- 300.81- 342.42+	301.41-283.70-338.95 338.95 276.14-319.99 299.10-295.116-267.72-313.03-287.31-287.30-246.09-	331.97+ 289.89- 278.85- 289.51- 295.99- 285.50-	307.10- 328.11 347.12+ 317.05- 286.91- 241.38- 316.08
Disch	Number	7,23 5,31 7,23 9,31	14,983 16,044 5,7574 9,798 14,270	186,274 5,837 5,837 5,231 5,231 5,231 5,257 5,550 6,509 6,009	732,719 118,790 8,413 42,347 2,858 3,627	127,091 6,410 15,540 12,843 3,327 1,536 5,165
enroliment	As percent of all enrollees	8.1.8.6	991.01 995.42 990.882 900.23 96.06	00000000000000000000000000000000000000	93.50 77.30 76.74 64.45 99.67	000000000 000040000 000000 0000000 000000
Non-HMD e	Number	982,444 17,760 16,831 21,618 448,826	643,084 17,091 21,514 32,450 18,957 42,162	611,044 34,483 16,955 16,955 11,291 11,291 20,503 166,813 12,9461 12,9461	2,156,545 397,258 29,977 141,769 9,393 12,248	404,057 19,323 44,646 40,067 11,460 15,951 19,521
	Area of residence	Michigan Ann Arbor, MI Battle Creek, MI Benton Harbor, MI Detroit, MI	Flint, MI Grand Rapids, MI Jackson, MI Kalamazoo, MI Lansing, MI Muskegon, MI Saginaw, MI	Wisconsin Appleton WI Eau Claire, WI Green Bay, WI Janesville, WI Kenosha, WI Racrosse, WI Madison, WI Maiiwaukee, Wi Racine, WI Sheboygan, WI	West North Central Minnesota Duluth, MN-WI Minneapolis, MN-WI Rochester, MN St. Cloud, MN	Cedar Rapids, IA Davenport, IA-IL Des Moines, IA Dubuque, IA Iowa City, IA Sioux City, IA

Table 3. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State and metropolitan statistical area: United States, 1986

	Non-HMO enrollme	nrollment	Dischi	arges	30-day post-admissi	nission deaths	Total
2	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000 persons
65	5,875	-	235,344	353.86+	77.2-	27.29+	52.20+
	8,560	80°00	2,669	08.32		70	5.12
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, %	3.167	7		55.6	8	8.0	4.3
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o `	000	•	200	67	8	6	4.18
-	138	• 10		325.30	-6.49	21.00-	44.59-
•	5,687	36.95	1,610	75.	9	ĸ,	8.1
a	216	I.C	64	80.0	m	4	.2
•	7,152	00	2,489	348.18	71.1	25.07	51.47
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ć	010	16	8	5.58	9	4.26	7.61
, ,	400	, rc	5.47	2.83	6	9.8	45.13-
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7	70,251	99.94	22,292	322.50	82.3	26.25	55.70+
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26	66,196 261,121	99.75 99.05	18,460 73,991	274.32-286.17-	73.5- 76.8-	19.62- 21.83-	56.59+ 52.18

See notes at end of table.

and post-admission deaths for aged Medicare enrollees and on. State and metropolitan statistical area: United States, short-stay hospital discharges. 1984 1984

United States	4	deaths per 1,000 persons		3.04	74.0	7.7	6.65	0.92	. 59	6.1	5.60	0.71	3.7	9.	7.87	2.93	3	7.29	$\frac{2}{1}$	2.2	ວ (ກ (50.27	ა. 1	59	9.17	6.21	30 c	2.10	2 . 1	5.2	4.87	1.46	4.96	7.74	7 . 28	10 . 40 t
stical are	ission deaths	Per 1,000 non-HMD enrollees	9.9	6.73		4.0	5 6 6		1.65	30.06+	0.24	2.46	3.10	. 48	8.00	4.0	3.50	3.31	3.81	5.34	3.72	22.52-	8	27.22+	6.7	5.30	4.4	5.64	ۍ د	0.46	2.8	9.57	9.21	9.42	1.32	30.14+
tropolitan sta	30-day post-admi	Per 1,000 discharges	8	0.5	1.5	. 4	. 4	79.1	4	82.8	4	5	5.	2.1	4.9	5	8.5	4.5	2.5	4.9	٠. د ت	90.7+	٠ ۵		ω.	9	ო ი	6		6	4	7	0	81.5	·.	90.0+
n, State and m	arges	Per 1,000 non-HMD enroflees	37.6	33.33	85.74	91.98	57.03 50.54	307.35-	78.82	64.53	63.77	83.89	392.81+	65.53	42.54	03.31	38.22	49.16	58.42	60.32	81.91	247.82-	77.97	46.0	35.67	39.4	322.72	51.9	19.4	85.44	53.63	86.55	67.98	62.63	13.45	341.19+
on and div	Disch	Number	, 78	4,01	,37	5,27	, 0 0	9,485	200	30	4.85	7.67	8,610	99	5,96	2,87	5,50	3,20	5,30	5,92	1,38	13,824	3,40	06'0	5,43	1,27	11,099	4,88	0,53	24	3,21	5,17	8,62	, 65	6,97	80 0 00 0 00 0 00 0
, by census regi	enrollment	As percent of all enrollees	6.6	9.9	6.6	ი ი	n 0	86.86	0	. 0	. 0	6	82.51	0	6	6.6	9.7	9.9	9.9	9.9	ي. 8	98.86	6.6	4	9.7	о О	99.98	9.9	8.0	7	. o.	9.9	9.2	6.6	ი. ი	70.00
ged population	Non-HMD e	Number	6.13	12,02	5,53	18,11	2,00	30,622	A 25	24,77	100	0 0	22,016	0 13	24.46	50	9,33	3,38	9,38	3,39	5,13	56,484	2,63	9,02	6,58	4,24	35,361	1,19	5,89	71	9,29	3,51	9,53	2,93	2,84	25,929
tal death rate for the aged popular 86		Area of residence	6.0.07.0	Charlottesville, VA	Danville, VA	Lynchburg, VA	∢:	Roanoke, VA		West V-19-		ATTENDED TO THE	ling, WV-OH		A	artination.	harlotte. NC	ayetteville	L	ickory, NC	acksonvilie	eigh-Durh	ilmington, N	South Carolina	erson, SC	rieston,	Columbia, SC	rence, S	livna	0000	Dany, G	thens.	tlanta, GA	ugusta, GA-	olumbus,	Macon, GA

deaths per 1,000 persons 54.63+ 54.08 54.45+ 50.90 53.22+ 55.35 45.90-52.77 58.41+ 51.74 53.68+ 30-day post-admission deaths Per 1,000 non-HMD enrollees 30.65+ 25.95 28.14+ 29.70 29.65+ 28.47 28.47 26.28 29.94+ 28.16+ 27.23 29.76+ Per 1,000 discharges 75.7-73.7-73.7-74.5-74.5-74.5-74.5-74.5-74.5-74.5-74.5-74.5-74.5-74.5-74.7-74.4-76.9-83.0 79.8 71.6 74.9-77.6 77.6 77.6 86.1+ 80.5 69.6-Per 1,000 non-HMD enrollees 399.81+ 311.28-354.81+ 420.67+ 2318.831 2321.091 2331.122 2331.122 2331.122 2331.25 2351.25 2 024 713+ 73+ 87+ 18+ 18+ 403.42+ Discharges 544,008 11,798 11,798 11,71 12,26 11,126 11,126 11,126 11,126 11,126 11,126 11,126 11,126 11,126 11,126 11,126 11,126 11,126 12,126 12,126 12,126 13,126 14,126 14,126 14,126 14,126 16,038 16, 169,194 9,650 37,964 4,300 218,279 18,561 4,652 3,449 18,793 32,781 32,027 36,406 Number 596,404 As percent of all enrollees 990.97 999.068 91.090.97 999.058 999.058 999.75 999.75 999.89 999.89 99.70 98.87 99.20 99.80 enroliment Non-HMO 550,327 12,541 10,064 10,064 70,970 88,836 705,534 612,906 181,639 611,908 101,169 101,169 101,169 101,169 101,34,502 101,34,502 101,34,502 101,34,603 10 422,657 31,008 107,485 10,319 Number 1,726,272 Bradenton, FL
Daytona Beach, FL
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Fort Myers, FL
FT Walton Beach, FL
Gainesville, FL
Jacksonville, FL Chattanooga, TN-GA Clarksville, TN-KY Jackson, TN Johnson City, TN-VA Knoxville, TN Memphis, TN-AR-MS 교 West Palm Beach, FL East South Central Lakeland, FL
Miami-Hialeah, FL
Naples, FL
Ocala, FL
Panama City, FL
Pensacola, FL Lexington, KY Louisville, KY-IN Owensboro, KY Area of residence Tallahassee, FL Tennessee Kentucky Florida Tampa, FL Table total

enrollees and United States

3. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare death rate for the aged population, by census region and division, State and metropolitan statistical area:

notes at end of table See

Table 3. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State and metropolitan statistical area: United States, 1986

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See notes at end of table.

deaths per 1,000 persons 550.331 550.331 550.331 550.331 550.331 550.00 5 48.32-43.27-49.76 47.57-46.18-47.59-50.45 46.99 50.75 46.82 Total 3. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare death rate for the aged population, by census region and division, State and metropolitan statistical area: 30-day post-admission deaths Per 1,000 non-HMD enrollees 27.31+
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800.9 74.7-64.7-67.5-65.1-72.3-71.0-68.2 76.5 80.2 Per 1,000 non-HMD enrollees 3227 - 48 2229 - 48 2229 - 48 2229 - 48 2239 - 48 2239 - 48 2239 - 48 2239 - 48 2239 - 48 2339 - 48 365.64+ 313.25 397.72+ 293.90-242.21-375.99+ 338.23 342.14 292.36-305.42 Discharges 32,198 15,941 1,795 2,340 0401 35,594 3,758 3,597 1,324,270 Number 363,471 As percent of all enrollees 99.90 99.88 99.91 93.08 94.36 99.77 99.91 99.91 enroliment Non-HMD 468 551 133 100 124 7 5063 127 7 100 128 7 250 128 7 250 128 7 250 128 7 250 128 7 250 128 7 250 128 7 250 128 7 250 128 7 250 138 7 250 148 7 250 158 7 250 168 7 250 178 7 250 188 97,248 12,097 9,076 109,822 42,408 5,379 6,886 Number ,539,951 ,200,638 Abilene, TX
Austin, TX
Beaumont, TX
Brazoria, TX
Browns, TX
Browns, TX
Corpus, Christi, TX
Corpus, Lubbock, TX
Lubbock, TX
McAllen, TX
Odessa, TX
San Angelo, TX
San Antonio, TX
Sherman-Denison, T Wichita Falls, TX Area of residence Billings, MT Great Falls, MT Boise City, ID Wyoming Casper, WY Cheyenne, WY Victoria, TX Waco, TX Tyler, TX Montana Mountain Idaho Table total 1985

enrollees and United States,

See notes at end of table.

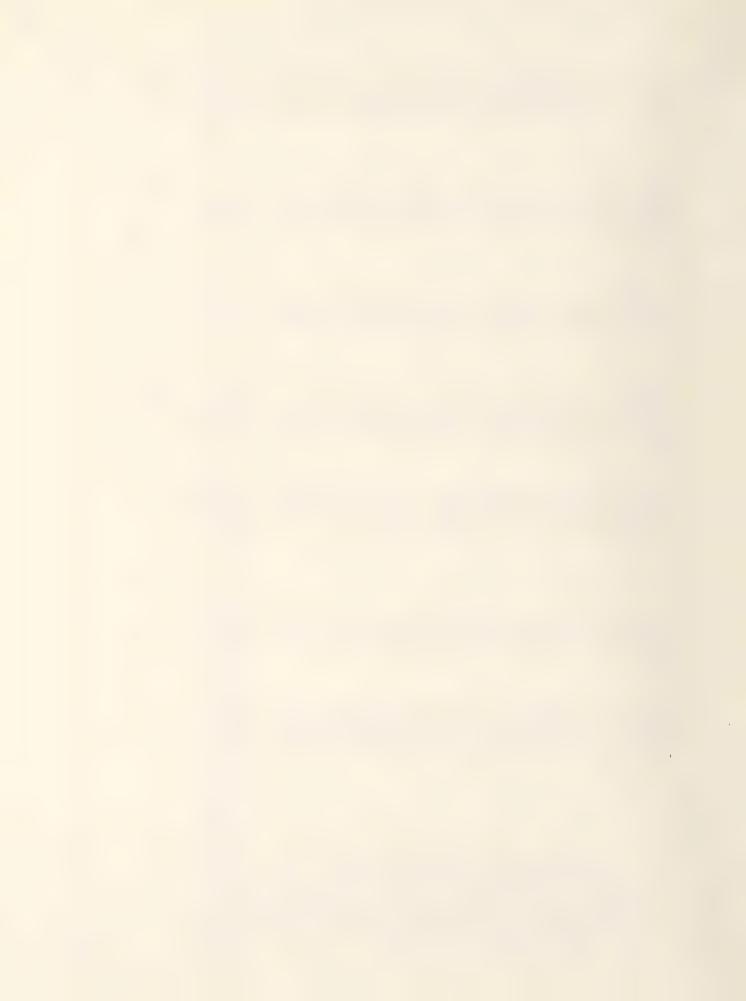
Table 3. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State and metropolitan statistical area: United States, 1986

	deaths per 1,000 persons	7.34	84444 84.004 10.00	45.22- 47.14- 44.63- 40.60-	44.83- 43.95- 46.74-	47.11- 48.24 47.13-	51.83 51.86 51.66	47.86-	44444444444444444444444444444444444444	h .
mission deaths	Per 1,000 non-HMD enrollees	7.7	23.15- 21.73- 23.62 22.53-	23.76- 22.17- 24.28 19.01-	22.75- 22.85- 23.08-	20.01- 22.78- 19.27-	26.29+ 30.99+ 23.55	23.74-	22.09- 22.11- 22.01- 22.31- 22.31- 22.10- 20.32- 20.32- 20.29- 20.29- 20.29- 20.29-	0
Discharges 30-day post-adm	Per 1,000 discharges	9 22 69	76.7 80.6 82.9 83.7	71.4- 77.1 67.8- 66.2-	74.9- 76.1-	74.8- 81.0 76.9	96.2+ 101.7+ 85.3	82.2+	7.97 7.17 7.17 7.17 7.17 7.18 7.18 7.19 7.19 7.19 7.19 7.19 7.19 7.19 7.19	·
	Per 1,000 non-HMG enrollees	85.35 69.39 73.66	300.42- 272.82- 287.00- 270.29-	330.59 285.45- 356.38+ 277.71-	304.84- 301.20- 306.61-	272.72- 287.15- 256.00-	292.63- 302.51- 277.99-	287.71-	2222 2222 2222 2222 2222 2222 2222 2222 2222	9 9 9
	Number	6,23 4,12 6,70	35,8 4,139 3,554 1,55	41,295 9,516 3,303 2,337	104,395 55,576 21,410	34,866 4,574 19,623	22,945 13,031 5,150	960,799	129,107 4,313 4,313 4,313 11,0392 113,0392 113,027 4,124 7,224 7,228 5,392 5,392	, 25
enroliment	As percent of all end	7.0	94,10 99.71 94.62	92.49 81.01 99.94 93.66	91.33 86.74 96.06	000 000 000 000 000	86.15 82.98 89.17	92.62	99999999999999999999999999999999999999	e. 0
Non-HMO e	Number	6,66 5,14 89	119,624 15,089 11,610 15,372	125,371 33,783 9,375 8,454	348,748 187,381 70,550	128,579 16,076 77,243	81,799 45,252 19,133	3,339,313	461,706 113,629 115,439 1159,828 41,254 41,254 150,245 17,048 203,778 203,947 20,326	,24
	enta enta enta enta	Colorado Boulder-Longmont, CO Colorado Springs, CO	collins, CO ley, CO	New Mexico Aibuquerque, NM Las Cruces, NM Santa Fe, NM	Arizona Phoenix, AZ Tucson, AZ	Utah Provo-Orem, UT Salt Lake City, UT	Nevada Las Vegas, NV Reno, NV	Pacific	Washington Bellingham, WA Olympia, WA Nichland, WA Seattle, WA Tacoma, WA Tac	0

enrollees and United States, Table 3. All diagnoses: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare total death rate for the aged population, by census region and division, State and metropolitan statistical area: 1986

	Non-HMD	Non-HMD enrollment	Discharges	arges	30-day post-admission deaths	ission deaths	- - - -
		As percent		Per 1,000	Per 1,000	Per 1,000	deaths
Area of residence	Number	enrollees	Number	enroliees	discharges	enrollees	persons
	2 477 24R	93.71	728.965	294.25-	ю	4.6	8.3
5 C C C C C C C C C C C C C C C C C C C	167 171	000	52.194	311.10-	9	6.4	5.9
, , ,	44.969	92.66	14,791	333.97	2	7.8	4.
,	27.102	60.66	7,646	283.94-	ö	3.4	6.1
	58.425	00.00	16,143	274.93-	5.	3.5	8.3
0 0	677,939	91.40	217,741	319.83-	5	6.5	හ _.
(A)	13,462	98.66	4,465	336.22	7	6.3	0
Modes to CA	33,619	98.80	9,928	297.14-	ö	4.2	8.7
Dak-and, CA	188,258	80.66	53,221	283.11-	9	5.5	æ ·
Oxnard-Ventura, CA	49,488	93.74	14,209	288.84-	;	3.6	9
	17,796	99.73	5,269	303.08-		4.2	0.7
Riverside, CA	203,246	90.92	62,806	310.85-	2	დ . ფ	8.4
Sarremento CA	120,273	91.81	32,478	273.45-	9	3.6	
Salinas	29,131	98.86	7,678	263.42-	9	3.0	4.
San Diego, CA	205,402	91.35	56,406	275.72-	6	2.1	5.9
San Francisco, CA	163,753	89.02	43,122	259.13-	4	2.3	g .
San Jose, CA	105,258	99.50	25,218	240.69-	83.9	20.15-	45.65-
Santa Barbara, CA	38,021	99.70	9,761	щ.	ო	0.	ຜູ
Santa Cruz, CA	24,640	77.66	6,325	œ	0	თ ნ	9
Santa Rosa, CA	44,775	99.49	12,374	9	9	ຕ. 	7.5
Stockton, CA	40,855	91.54	11,661	9	· .	ი . ი	9.6
Vaileio. CA	35,778	ଜ୍ୟ . ରଜ	10,084	Š	'n	4 . و	0.1
Visatia	28,811	99.91	9,492	Φ.	Š.	4.7	9.
uba City,	11,835	99.35	3,729		9	7.9	φ. ∞
						*	0
Alaska	16,348	99.18	4,848	308.91-	10.00	20.13-	00.55
Anchorage, AK	5,625	9.7	, 63	312.18	m	20	4 5
	80 233	CC.	17,798	223.71-	9	6	. 81
	57,680	80.00	12.421	218.81-	88.2+	19.57-	37.59-
	,	,	1 1 1				

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (P<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).



Summary of diagnostic groups

groups are stroke, pneumonia and influenza, first group and has two subgroups, ischemic abdominal cavity, and hip fracture (fracture Information presented here is a summary sections. The next sections separately cover infarction. The fourth group is all cancers, digestive organs and cancer of the trachea, 11 diagnostic groups. Heart disease is the diseases of the gallbladder, hernia of the bronchus, and lung. The remaining five which has two subgroups, cancer of the of the data presented in the following heart disease and acute myocardial

diagnoses covered in this volume account for percent of all deaths (37.87 deaths per 1,000 Tables 1 through 5 in this section contain discharges per 1,000 enrollees out of a total persons out of a total of 51.02) for persons discharges, and total deaths per 1,000 aged 30-day post-admission death rate per 1,000 42 percent of Medicare discharges (137.22 the discharge rate per 1,000 enrollees, the persons for these 11 diagnostic groups by age, sex, race, and geographic area. The aged 65 years or over. The data in each of 327.09) for aged enrollees and 74.2 summary table are shown by one

each section that follows are more detailed. demographic variable only. The tables in

discharge rates, 30-day post-admission death with age. Discharges per 1,000 enrollees also discharge rates for ischemic heart disease, all cancers, and hernia of the abdominal cavity Discharge rates for malignant neoplasms of he digestive organs were virtually the same rates, and population death rates increased were highest in the age group 75-84 years. In Table 1, the data are summarized by individual diagnostic groups. However, age. For all diagnoses combined, total increased with age for most of the

Table 1. Short-stay hospital discharges and post-admission deaths per 1,000 discharges for aged Medicare enrollees and total deaths per 1,000 aged persons, by age and diagnostic group: United States, 1986

		-non-	HMO enrollees	lees		30-08	day nost-a	30-day post-admission deaths	eaths		Total de	Total deaths per	
			8	Rate		3	per 1,000	per 1,000 discharges	S		1,000	1,000 persons	
		All	65-74	75-84	85 vears	₹	65-74	75-84	85 years	A	65-74	75-84	85 years
	Dorcont	SODE	vears	vears	or over	ages	years	years	or over	ages	years	years	or over
Diagnostic group	1000	202	00000	400 60	400.05	70.6	56 A	87.3	137.6	51.02	28.01	63.48	153.98
All diagnostic groups	0.001	327.09	203.03	400.05	499.00	0.67	9	9	2				
Subtotal	42.0	137.22	106.70	171.51	223.69	1	1	I	1	37.87	21.00	46.90	113.68
1	10 7	67.50	52 49	79.92	93.41	104.2	74.4	117.9	173.9	21.22	10.42	26.37	71.78
Heart disease		100	00.10	10.00	00 60	9 00	68 0	1247	189 1	14.56	7.33	18.29	47.48
Ischemic heart disease	9.4	30.73	29.07	34.40	29.03	30.0	000	- 27	0.00	20.9	7 10	0 01	16.78
Acute myocardial infarction	3.2	10.50	8.81	13.04	13.32	242.0	185.5	2/9.0	304.0	0.60		10.0	-
All cancers	8.2	26.77	24.65	31.27	26.04	160.1	149.5	167.4	196.7	10.56	8.40	16.01	9
Malignant neoplasms of digestive organs								0	4 000	000	000	020	F 22
and peritoneum	2.1	92.9	5.72	8.34	8.36	190.9	176.1	196.2	239.4	2.80	2.03	3.03	5
Malignant neoplasms of trachea, bronchus,								!	1	0	0	000	Ċ
pull pue	1.2	3.88	4.23	3.83	1.82	281.0	259.6	312.7	387.9	5.66	2.02	28.7	Ö. V.
	27	11 96	7.36	16.98	25.50	197.7	153.0	198.4	279.0	3.87	1.49	5.05	14.8
Siroke	7 .		0000	90.00	40.14	162 5	1070	165 B	243.3	2.08	0.58	2.42	10.32
Pneumonia and influenza	4.4	00.01	03.6	20.00	- 0	1 0	7 7 7	7000	70 5	0 11	0.04	71.0	0 4
Diseases of gallbladder	6.1	6.27	5.70	6.97	00.7	7.10	1.7.1	1.60	0.07	- 6	000		
Hernia of abdominal cavity	1.6	5.10	4.80	5.80	4.73	14.7	6.9	18.4	50.8	0.03	0.0	0.0	
Exacting of nock of familia	2 1	7.03	2.47	10.19	26.22	63.5	36.1	56.1	89.4	١	1	I	1

SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population). NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.

for the age groups 75–84 years and 85 years or over. For malignant neoplasms of the trachea, bronchus, and lung, discharge rates decreased with age. Discharge rates more than tripled from the lowest age group to the highest age group for stroke, pneumonia and influenza, and fracture of the neck of the femur.

Rates of 30-day post-admission deaths per lung, for which the death rate was highest in almost seven times the rate for the age group 65-74 and 16.11 deaths per 1,000 persons 85 1,000 discharges increased with age for each diagnostic group. The population death rate for the major causes of death were for heart the oldest age group (47.48 deaths per 1,000 65-74 (10.42 deaths per 1,000 persons), and persons) also almost seven times the rate for for ischemic heart disease, with the rate for with age for all diagnoses except malignant disease, with the rate for the age group 85 increases in population death rates by age persons). The smallest increase among the (deaths per 1,000 aged persons) increased neoplasms of the trachea, bronchus, and major causes of death was for all cancers (8.46 deaths per 1,000 for the age group or over (71.78 deaths per 1,000 persons) years or over), for which the rate almost the age group 75-84 years. The greatest the youngest (7.33 deaths per 1,000 doubled

In Table 2, the data are summarized by sex. For all diagnostic groups combined, total discharges per 1,000 enrollees, 30-day post-admission deaths per 1,000 discharges, and deaths per 1,000 persons were higher for men than for women. Discharge rates were also higher for men than for women for each diagnostic group except diseases of the gallbladder and fracture of the neck of the femur. The discharge rates for men were

at least 25 percent higher than those for women for the remainder of the diagnostic groups except stroke, for which the rate was 8 percent higher for men than for women.

Men had higher 30-day post-admission death rates per 1,000 discharges than women for all the diagnostic groups except acute myocardial infarction, stroke, and hernia of the abdominal cavity. Population deaths per 1,000 persons were higher for men than for women for all the major causes of death except stroke. The stroke death rate for women (4.07 per 1,000 persons) was about 14 percent higher than that for men (3.58 per 1,000 persons). The population death rates were more than 25 percent higher for men than for women for the remainder of the major causes of death. The smallest

difference was 9.1 percent for diseases of the gallbladder (0.12 per 1,000 men versus 0.11 per 1,000 women), and the largest was 218 percent for malignant neoplasms of the trachea, bronchus, and lung (4.49 per 1,000 men versus 1.41 per 1,000 women).

The data are summarized by race in Table 3. Discharge rates for all diagnostic groups combined were virtually the same for white persons as for black persons. Among individual diagnostic groups, rates were higher for white persons than for black persons for heart disease, pneumonia and influenza, diseases of the gallbladder, hernia of the abdominal cavity, and fracture of the neck of the femur. Discharge rates were higher for black persons for cancer diagnoses and stroke.

Table 2. Short-stay hospital discharges and post-admission deaths per 1,000 discharges for aged Medicare enrollees and total deaths per 1,000 aged persons, by sex and diagnostic group: United States, 1986

	Disch	Discharges per	er.	30-day post-admission deaths	admissio	n deaths	Total c	Total deaths per	er
	1,000 non-HMO enrollees	HMO er	rollees	per 1,00	per 1,000 discharges	rges	1,000	1,000 persons	S
Diagnostic group	Both sexes	Men	Women	Both sexes	Men	Women	Both sexes	Men	Women
All diagnostic groups	327.09	354.81	308.69	9.62	89.3	72.3	51.02	59.97	44.92
Subtotal	137.22	157.81	157.81 123.51	٦	I	1	37.87	44.38	33.44
Heart disease	64.59	73.87	58.45	104.2	109.3	8.66	21.22	24.29	19.13
Ischemic heart disease	30.73	37.11	26.49	98.6	100.2	97.1	14.56	17.18	12.77
Acute myocardial infarction	10.50	13.51	8.51	242.0	227.5	257.3	6.95	8.70	5.75
All cancers	26.77	34.82	21.43	160.1	170.0	149.4	10.56	13.95	8 25
Malignant neoplasms of									i S
digestive organs									
and peritoneum	9.79	8.02	5.92	190.9	202.6	180.5	2.88	3.51	2.45
Malignant neoplasms of							})) i
trachea, bronchus, and lung	3.88	6.19	2.35	281.0	293.6	259.1	5.66	4.49	1.41
Stroke	11.96	12.50	11.60	197.7	193.4	200.7	3.87	3.58	4.07
Pneumonia and influenza	15.50	18.62	13.42	163.5	184.4	144.2	2.08	241	185
Diseases of gallbladder	6.27	5.95	6.48	31.7	37.4	28.3	0.11	0.12	0 11
Hernia of abdominal cavity	5.10	8.43	2.88	14.7	12.2	19.5	0.03	0.03	0.03
Fracture of neck of femur	7.03	3.62	9.28	63.5	108.4	51.9	1	1	1
NOTE: Only and Medical actions with the second	the All and Land								

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.

SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 3. Short-stay hospital discharges and post-admission deaths per 1,000 discharges for aged Medicare enrollees and total deaths per 1,000 aged persons, by race and diagnostic group: United States, 1986

	Disc 1,000 no	Discharges per 1,000 non-HMO enrollees	er irollees	30-day pos per 1,0	30-day post-admission deaths per 1,000 discharges	deaths	Total o	Total deaths per 1,000 persons	o o	rd 8
	All			¥			¥			3 4
Diagnostic group	persons 1	White	Black	persons	White	Black	persons	White	Black	3 2
All diagnostic groups	327.09	328.74	329.57	79.6	9.62	84.9	51.02	51.00	56.13	-
Subtotal	137.22	138.82	128.24	1	I	I	37.87	37.95	40.89	d:
Hoar disease	64.59	65.44	59.91	104.2	105.8	86.8	21.22	21.36	22.03	ın
Ischemic heart disease	30.73	31.68	21.88	98.6	8.66	84.4	14.56	14.92	12.23	2
Acute myocardial infarction	10.50	10.83	7.53	242.0	244.9	206.5	6.95	7.12	5.86	5
All cancers	26.77	26.81	27.84	160.1	158.9	179.8	10.56	10.50	12.19	Ξ.
Malignant neoplasms of										18(
digestive organs	į	i	1	000		1	00 0	000	03 6	SO
and peritoneum	9.76	6.71	7.62	90.9	188.5	220.7	2.88	20.7	3.00	ar
Malignant neoplasms or	3 88	3 86	4.32	281.0	283.2	276.8	2.66	2.67	2.84	T.
Stroke	11.96	11.61	16.77	197.7	200.8	179.3	3.87	3.83	4.72	7
Preumonia and influenza	15.50	15.79	13.02	163.5	163.6	174.3	2.08	2.12	1.82	5
Diseases of gallbladder	6.27	6.46	4.07	31.7	31.5	41.0	0.11	0.11	0.10	
Hernia of abdominal cavity	5.10	5.27	3.56	14.7	14.4	22.3	0.03	0.03	0.03	Ĭ
Fracture of neck of femur	7.03	7.44	3.07	63.5	64.1	28.7	1	1	1	Ġ
	second land and address of a state of	oold bac at	200000							+

Includes persons of other races in addition to white and black persons.

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.

SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

myocardial infarction; malignant neoplasms The 30-day post-admission death rate per ,000 discharges for all diagnoses combined of the trachea, bronchus, and lung; stroke; digestive organs, pneumonia and influenza, the abdominal cavity. In contrast, this rate diseases of the gallbladder, and hernia of group, 30-day post-admission death rates was somewhat higher among black than white Medicare enrollees. By diagnostic and fracture of the neck of the femur. was higher for white persons for heart disease; ischemic heart disease; acute cancers, malignant neoplasms of the were higher for black persons for all

The death rate per 1,000 aged persons for all diagnostic groups combined was higher

rates were higher for black persons for heart disease, all cancers, and stroke. Death rates persons (51.00). By diagnostic group, death were higher for white persons for ischemic heart disease, acute myocardial infarction, for black persons (56.13) than for white and pneumonia and influenza.

diagnostic groups, the 30-day post-admission diagnostic groups combined, discharge rates were higher for residents of rural areas than true for each diagnostic group except cancer The data by metropolitan and rural areas diagnoses, which had higher discharge rates for residents of urban areas. This was also groups combined and for most individual for urban residents. For all diagnostic are summarized in Table 4. For all

among urban and rural residents. However, 8 percent higher for urban residents than neumonia and influenza was more than the 30-day post-admission death rate for or residents of rural areas (173.0 versus deaths per 1,000 discharges were similar 46.5 per 1,000 discharges).

troke and somewhat higher among residents iagnostic groups combined were similar for omewhat higher among residents of rural reas for acute myocardial infarction and najor causes of death, heart disease and 0.73). This was also true for two of the schemic heart disease. Death rates were rban and rural residents (51.34 versus f urban areas for cancer diagnoses. Deaths per 1,000 persons for all

in the South (348.51). This was also true for the neck of the femur-which was lowest in The data are shown by region in Table 5. lischarge rates were lowest for residents in the West (292.36) and highest for residents Exceptions were pneumonia and influenza, organs-which were lowest in the West but highest in the Northeast—and fracture of acute myocardial infarction, all cancers, the Northeast and highest in the West. malignant neoplasms of the digestive or all diagnostic groups combined, most individual diagnostic groups.

groups combined, the population death rates evident for 30-day post-admission deaths per combined, the difference between the lowest owest 30-day death rates. For the individual were lowest for residents in the West (47.59) single region had the majority of highest or and highest rates was only 2.8 percent. No 1,000 discharges. For all diagnostic groups diagnostic groups, the difference between No particular pattern by region was 12.5 percent or less. For all diagnostic the lowest and highest region was

Table 4. Short-stay hospital discharges and post-admission deaths per 1,000 discharges for aged Medicare enrollees and total deaths per 1,000 aged persons, by metropolitan or rural counties and diagnostic group: United States, 1986

	1,000 n	Discharges per 1,000 non-HMO enrollees	oer inrollees	30-day p	30-day post-admission deaths per 1,000 discharges	on deaths	Tota	Total deaths per	per
	United	Afotro		1 14:41				200	2
Circum city control	5	-000		Ollied	Metro-		Laited Design	Metro.	
Diagnostic group	States	politan	Rural	States	politan	Rural	States	politan	Bural
All diagnostic groups	327.09	316.97	353.58	79.6	81.1	76.3	51.17	5134	50 73
Subtotal	137.22	132.67	149.13	1	ı		38.02	00000	27.70
11000							20.05	30.23	37.42
near disease	64.59	62.61	69.78	104.2	104.2	104 1	21 20	21 11	00 00
schemic near disease	30.73	29.51	33.92	98.6	97.7	100.5	14.61	14 00	44.03
Acute myocardial infarction	10.50	10.03	11.75	242.0	239.3	248 1	00.4	7.07	14.04
All cancers	26.77	27.09	25 96	160 4	0.00	100	0.30	0.03	1.14
Malignant neoplasms of		9	20.00		130.8	163.6	10.59	10.83	96.6
digestive organs									
and peritoneum	6.76	9	07.9	0	000				
Malignant neoplasms of		9	0.40	80.8	189.0	196.5	2.89	2.98	2.64
trachea, bronchus, and lung	3 88	3 00	2 0 4	000	0				
Stroke	1100		0.0	0.102	2/4.8	298.3	2.68	2.73	2.53
The property of the control of the c	06.1	60.	12.66	197.7	194.4	205.5	3 80	3 75	A DE
r neumonia and influenza	15.50	13.67	20.23	163.5	173.0	116 E		1 0	7.0
Diseases of gallbladder	6.27	5 72	7 73	1 0	9 9	0.00	2.03	2.07	2.14
Hernia of abdominal cavity	1		2 (32.0	30.1	0.12	0.11	0.13
Fracture of pool of family	0 : 0	9.4	5.59	14.7	14.9	14.0	0.04	0.03	0
actare of fleck of lefflur	7.03	6.98	7.18	63.5	63.1	64.5)	5
MOTES. Only and the state of th									

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex.

SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census

and highest for residents in the Northeast (53.18). This was also true for most of the major causes of death.

It has been hypothesized that areas with high discharge rates may have a less severe case mix and, conversely, that areas with low discharge rates may have a more severe case mix. If this hypothesis holds, there should be a negative correlation between discharge rates and hospital-related mortality (i.e., 30-day post-admission deaths per 1,000 discharges). Additionally, it is reasonable to hypothesize that discharge rates should reflect relative need for care. Under this hypothesis, one would expect that hospitalization for a given condition, such as heart disease, should be higher in areas

with higher population death rates from heart disease.

The correlation between the number of discharges per 1,000 enrollees and both 30-day post-admission deaths per 1,000 discharges and total deaths per 1,000 persons for the 11 diagnostic groups is shown in Table 6. The correlations were calculated using rates for metropolitan statistical areas and rural areas.

For all diagnoses combined, there was a negative correlation of 0.42 between the discharge rates per 1,000 enrollees and the 30-day post-admission death rates per 1,000 discharges, indicating an inverse relationship between the 30-day post-admission mortality rate and the hospitalization rate in an area.

In four of the individual diagnostic groups, this correlation was also negative and statistically significant.

There was a positive correlation of 0.42 between the discharge rates per 1,000 enrollees and the population death rates per 1,000 persons for all diagnoses combined, indicating a direct relationship between mortality and hospitalization in an area. This correlation was also positive and statistically significant for virtually all of the individual diagnostic groups.

Table 6. Correlations between short-stay hospital discharges per 1,000 aged Medicare enrollees and death rates, by diagnostic group: United States, 1986

	Correlation between	etween
	discharge rate and:	te and:
	30-day	Total deaths
	post-admission	per 1,000
÷	deaths per	aged
Diagnostic group	1,000 discharges	persons
All diagnostic groups	1 - 0.42	10.42
Heart disease	1-0.26	10.56
Ischemic heart disease	1 - 0.32	10.31
Acute myocardial		5
infarction	-0.03	10.51
All cancers	0.04	10.44
Malignant neoplasms of		;
digestive organs		
and peritoneum	-0.04	10.54
Malignant neoplasms of		
trachea, bronchus,		
and lung	1 - 0.25	10.59
Stroke	-0.11	10.38
Pneumonia and influenza	1 - 0.23	10.24
Diseases of gallbladder	-0.07	10.26
Hernia of abdominal cavity	- 0.09	- 0.06
Fracture of neck of femur	0.09	1
Country of the Countr		

Correlation is significant at the p < = .01 level.

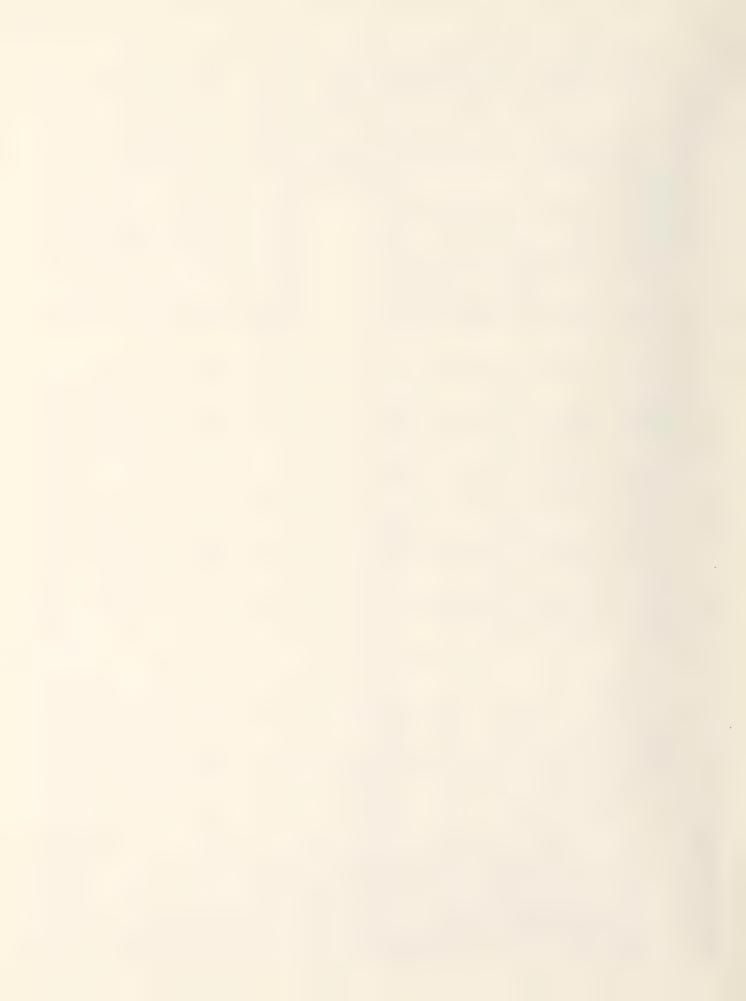
NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included in Medicare data.

SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 5. Short-stay hospital discharges and post-admission deaths per 1,000 discharges for aged Medicare enrollees and total deaths per 1,000 aged persons, by census region and diagnostic group: United States, 1986

	ğ	schardes be	Discharges per 1,000 non-HMO enrollees	-HMO enro	lees		30-day po	30-day post-admission deaths per 1,000 discharges	on deaths arges			Total deaths per 1,000 persons	s per 1,00	0 persons	
	United	North-	North			United	North-	North			United	North-	North		
Diagnostic group	States	east	Central	South	West	States	east	Central	South	West	States	east	Central	South	West
All diagnostic groups	327.09	327.09 315.00 -	333.07 +	348.51+	292.36 -	9.62	+ 6.08	79.5	78.7 –	80.2	51.17	53.18+	51.86+	51.17	47.59 -
Subtotal	137.22	137.22 136.08	139.13	144.96	120.73	1	I	1	ı	١	38.02	40.37	38.76	37.51	34.82
Heart disease	64.59	65.27 +	65.20+	+ 26.79	56.04 -	104.2	103.0	108.8+	102.7 -	101.2-	21.29	23.33+	21.92+	20.84 -	18.59 -
Ischemic heart disease	30.73	30.98	30.70	32.88+	26.19-	98.6	98.1	104.0+	- 6.96	94.0 -	14.61	17.18+	15.44+	13.11 -	12.88 –
Acute myocardial infarction	10.50	11.19+	10.74+	10.71+	8.83-	245.0	230.2 -	249.4+	249.0+	232.1 -	86.9	7.75+	7.28+	7.03	5.43 -
All cancers	26.77	28.95+	26.44 -	26.93	24.00 -	160.1	156.7 -	159.6	161.2	164.0+	10.59	11.26+	10.60	10.39 -	10.10-
Malignant neoplasms of															
digestive organs	i	1	i						0		000	000	000	000	7
and peritoneum	92.9	7.79+	6.71	6.46	6.04 –	190.9	185.0 -	191.4	194.2	194.0	2.89	3.29 +	2.92	7.68 –	Z.U =
Malignant neoplasms of trachea, bronchus,															
and lung	3.88	4.00+	3.71 -	4.32+	3.14 -	281.0	275.2	287.0	274.3	298.1+	2.68	2.67	2.59	2.81+	2.55 -
Stroke	11.96	11.39 –	12.08	12.83+	10.84	197.7	194.4	196.0		199.4	3.89	3.43-	3.95	4.22+	3.77 -
Pneumonia and influenza	15.50	13.20	16.11+	17.51+	13.81 -	163.5	169.1+	160.9		169.3+	2.09	2.20+	2.13	1.91 –	2.22+
Diseases of gallbladder	6.27	- 2.67	6.57+	6.93+	5.34 -	31.7	33.0	32.8		31.3	0.12	0.12	0.12	0.12	0.10-
Hernia of abdominal cavity	5.10	5.25+	5.52+	5.53+	3.43 -	14.7	15.2	15.2		15.3	0.04 -	0.03-	0.04	0.03	0.04 -
Fracture of neck of femur	7.03	6.35 -	7.21+	7.26+	7.27 +	63.5	61.4	66.4		61.3	I	1	1	1	I
	-														

SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population). NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates that the rate is significantly greater or less than the U.S. rate (p < .01).



deaths per 1,000 aged persons (Table 1). The discharges for Medicare enrollees 65 years of percent of all deaths among the aged. Heart made up 26 percent of total post-admission mortality rate per 1,000 enrollees for heart disease accounted for 64.59 discharges per In 1986, there were 8.7 million hospital leading cause of death, accounting for 42 reason for hospitalization, accounting for 1.7 million, or 20 percent, of all hospital ,000 aged Medicare enrollees and 21.22 stays for aged enrollees in 1986. It is the 30-day post-admission mortality rate per disease (6.73 deaths per 1,000 enrollees) 1,000 discharges was 104.2, or about 10 age or over. Heart disease is a leading percent. The 30-day post-admission deaths in the Medicare population.

Age and sex patterns

Both discharge rates and death rates for heart disease increase with age, as would be expected (Table 1). For all age groups, discharge rates and death rates were higher for men than for women. For example, among enrollees aged 65–74, the discharge rate for men was 63.82, compared with 43.71 for women. The death rate for persons 65–74 years of age was 14.46 for men versus 7.24 for women. Rates of 30-day post-admission mortality per 1,000 discharges increased with age and were higher for men than for women at all ages.

NOTE: Heart disease is ICD-9-CM codes 391-392.0, 393-398, 402, 404, 410-429.

Patterns by race

Both discharge rates and death rates differed between black and white persons. Discharge rates for heart disease were lower for black men than for white men in all age groups 65 years or over. For example, among men aged 65–74, the discharge rate for black men was 50.65 per 1,000 enrollees, compared with 65.28 for white men. In contrast, discharge rates for black and white women were similar.

Generally, population death rates (total deaths per 1,000 aged persons) for heart disease were somewhat higher for black persons than for white persons among both men and women. However, the situation was reversed for the oldest old, persons 85 years or over. Among black men 85 years or over, the death rate was 62.68 per 1,000 persons, compared with a rate of 81.37 for white men. Similarly, the death rate for black women aged 85 years or over was 56.98, compared with a rate of 70.21 for white

The rates of 30-day post-admission deaths per 1,000 discharges were similar for black persons and white persons in the age group 65-74 years. However, this rate was lower for black persons than white persons in the group 75 years or over.

Variations by geographic area

Tables 2 and 3 contain data on utilization and mortality by geographic area. The tables are broken out by U.S. census region,

division, and State. Data on metropolitan and rural areas within each State are shown in Table 2, whereas data at the metropolitan statistical area (MSA) level are shown in Table 3. Figures 1-3 were derived from the data in these tables.

Discharge rates

The highest discharge rates for heart disease were clustered in those Southern and Middle Atlantic States shown in black in Figure 1. The States with the lowest discharge rates, with some exceptions, are in the West. The highest discharge rate of any State was 80.54 discharges per 1,000 enrollees in West Virginia, and the lowest rate was 39.46 in Hawaii (Table 2).

rate per 1,000 enrollees at the MSA level was with that shown in the map in Figure 1. The between the 30-day post-admission mortality -0.26, which indicates an inverse but weak and rural areas by discharge rates across the divisions with the highest median discharge lowest median rates were the Mountain and and rural areas. The correlation coefficient rate per 1,000 discharges and the discharge Figure 2. The information shown is in line Pacific. The Middle Atlantic Division also had a large range in rates across its MSAs South Central, and the divisions with the The range in the distribution of MSAs rates were the Middle Atlantic and East United States and within U.S. census divisions is shown in the boxplots in relationship between the two rates.

Population death rates

The highest population death rates from heart disease were generally found in the eastern part of the United States (Figure 3). New York had the highest rate of deaths from heart disease (24.66 deaths per 1,000 aged persons), and Hawaii had the lowest rate (14.35 deaths per 1,000). As noted, Hawaii also had the lowest discharge rate for heart disease.

Correlations between rates

a negative correlation of -0.26 between the correlation suggests that areas having a high rate in an area. As already noted, there was discharges tend to have a greater proportion MSAs between the Medicare discharge rate For heart disease, the correlation across 1,000 discharges and the discharge rate per and the death rate for persons aged 65 or conversely, that areas having a low rate of mortality in an area and the hospital use 30-day post-admission mortality rate per rate of discharges tend to have a smaller 1,000 enrollees at the MSA level. This proportion of severely ill patients and, relationship between the underlying over was 0.56, indicating a direct of severely ill patients.

Urban-rural patterns

Nationwide, the heart disease discharge rate for Medicare enrollees living in rural areas was higher than the rate for residents of MSAs (69.78 versus 62.61 discharges per 1,000 enrollees). In each census region, the rate was also higher for rural residents.

Nationwide, the 30-day post-admission death rate per 1,000 discharges was nearly identical for MSA and rural residents. In two regions (Northeast and West), the rate was lower for rural residents; in the North Central and South Regions, the rates were similar.

In the Nation as a whole, the population death rate from heart disease was lower for rural residents than for MSA residents (20.89 versus 21.44 deaths per 1,000 aged persons). The rate was also lower for rural residents in all census regions except the South.

Table 1. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by age, sex, and race: United States, 1986

	00000	+ 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	200.0	2007	SOLday post-adm	mission deaths	
		1 2 1 1 1 0 1)	9			ota
		0 1 6		1		11.	eath
		of al-		non-HMD	er 1,0	non-HMO	per 1,000
Age, sex, and race	Number	enrollees	Number	101	7.9e	-0-	erson
, , , , , , , , , , , , , , , , , , , ,	K 698 92	6.7	24.50	4.5	4		.2
FE 74	160,50		848.43	2.4	74.	6.	4.0
100 1000	A 020 44	9	41.04	6.6	17.	4.6	6.3
10104 July 1010	2 515 883	000	235,028	93.41	173.9	0	-
o lo cipaí o							
2 4 5	650.99	6.0	86.8		109.3	8.08	24.29
55-74 VPAT	7.056	95.90	450,373	3.8	79.	5.1	4.4
5 BA CON	912.36	6.0	65,56	1.1	36.	2.4	3.7
2010	5,515,12 580,12		70.91	3.9	9	4	9.1
o years or over	011700			3 3 3	1		
2000	047.9	7.1	37.65	8.4	6	5.83	19.13
E 74 × 0 3 P	106 1	9	98.05	3.7	80	6.	7.2
2 2 2	7 108 081	97.51	375.482	73.50	05.	-	σ.
יים אנמים	2,100,1	0	64.11	4.6	4	7	8.8
36613 01 046	100017		4				
	574 OF	9	42.81	5.4	5	6.	-
20 20 20 20 20 20 20 20 20 20 20 20 20 2	20.700	0	753 29	3.0	74.	σ.	0.2
ב מישי היים	124 40		76.66	0	19.	9	6.3
4 46475	0 020 502	90.00	212,854	95.34	177.2	16.89	ε,
o years or ove	00,262,2						
Men	.391,01	5.9	6	75.59	110.7	8.37	24.50
65-74 vear	16.47	5.8	05,86	5.2	80.	5.2	4.4
5-84 Vear	573.98	5.9	39,77	3.1	œ	∞.	0.
Years		97.12	64,24	6.9	01.	1.5	. 3
						-	- 1
Women	,183,	97.07	832,927	58.72	101.5	90.0	19.22
65-74 year	990,59	6.5	47,42	3.4	68.	9	9.0
-84 y	560,51	7.4	36,89	3.8	9	7.8	
rears o	1,631,94	8.6	48,61	1.0	. 99	. 7	0.7
		- 1	0	•		C	٥
× 1	1,991,943	97.86	119,344	20.00	20.00	00.00	12.63
-74 yea	,213,01	5.5	9,91	υ. 	,,		
5-84 years	583,42		7,91	n 4		: 6	. 0
5 years o	195,50	9.1	6,51	4	·	7 . 7	
W.	2.78	7.4	7,67	0.1	9		24.65
: 40	9.30	7.2	30	0.6	79.	0.	6.7
5.84 Vest	5.40	7.6	6.36	5.9	10.	8.3	4.0
vears o	28	98.74	4,998	86.05	144.1	4	2.6
						•	
e a	99	98.10	71,674	59.77	85.1	0.0 0.0	20.27
5-74 year	93,70	7.7	3,60	 	o	7.	
4 years	368,02	B	6,54	2.1	5 0	† P	9 0
5 years o	137,41	9.2	1,51	3. 8.	20	•	9.0
	of other races in ad	addition to white	and black pers	. S. E. O			

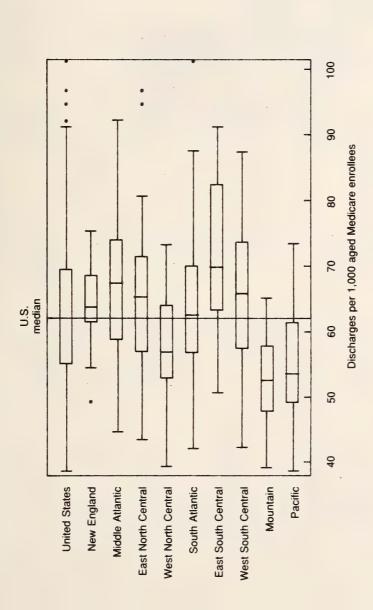
(1)Includes persons of other races in addition to white and black persons.
NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.
Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Discharge rate 39.46 to 56.03 56.04 to 64.43 64.44 to 69.50 69.51 to 80.54

Figure 1. Heart disease: Short-stay hospital discharges per 1,000 aged Medicare enrollees, by State: 1986

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy. Data from the Medicare Statistical System.

Figure 2. Heart disease: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by census division: United States, 1986



Outliers for	Outliers for discharges per 1,000 enrollees	rollees
Area	Rural or metropolitan statistical area	Rate
United States	Johnstown, PA	92.34
	Kokomo, IN	94.70
	Steubenville, OH-WV	96.91
	Cumberland, MD-WV	101.14
New England	New Haven, CT	49.16
East North Central	Kokomo, IN	94.70
	Steubenville, OH-WV	96.91
South Atlantic	Cumberland, MD-WV	101.14
SOURCE: Health Care Management and Strate	SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.	of Data stical System.

14.35 to 18.96 18.97 to 21.12 21.13 to 22.18 22.19 to 24.66 Death rate

Figure 3. Heart disease: Deaths per 1,000 aged population, by State: 1986

SOURCES: Population death rates were derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 2. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMO	enroliment	Discha	Ses	30-day post-admi	ission deaths	o t
		As percent of all		Per 1,000 non-HMD	Per 1,00		deaths per 1,000
Area of residence	Number	101	Number	nroll	h-	- 0	erson
United States	26,698,924	. 7	24,50	4.59	04.	.727	1.29
Metropolitan Rural	19,363,284 7,335,640	95.80 99.16		69.78+	104.1	7.225+	- ∞
2007 115 150 100 100 100 100 100 100 100 100	6.276.897	0.	09,45	5.2	ю	. 73	3.33
Metropolitan Rural	5,564,648 712,249	97.84 99.69	357,371 52,084	64.29 72.91+	103.5 99.5-	6.676 7.217+	23.41+ 22.63+
	1 550 313	C	0.60	3.00	04.	. 67	1.0
Metropo Dira	1,342,886	9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	85,673 14,928	63.59- 65.38	105.1 99.6	6.708 6.466	21.24 20.09-
9	771077	•	1				
Maine	153,209	8	, 28	6.4	98.	. 22	5.5
Metropolitan Rural	82,345	68.66 68.66	5,427 4,856	65.50 67.61	107.8	7.255	21.11
		•	•		9	10	-
Zek Tampshile	114,752	9, 4	- 0	2.2	, e	- 0	1.7
Rural	40,617	69.77	2,585	63.39	101.2	6.567	19.93
		•	0	4	0	4	α -
Vermont	62,781	20 0	א ע	٠. د د	108.2	900	22.55
Rerord	52,359	08.66	3,449	65.15	02.	. 60	1.6
		ř	6	90	c	0	-
一番のよう こうしゅう はいかい こうしゅうしょう	659,478	0 4 . CO	40,004	68.32+	103.9	7.122+	21.40
Rural	50,453	. ro	3,27	4.69	80.	.085	7.0
0 0 0 0 0 0 0	130 330	100	. 15	9.27	01.	90.	2.1
-	132,332	97.59	9,158	69.27+	101.9	7.064	22.18
Reral	o	?	>	?			
Connecticut	396,761	5	9	3.7	. 96	.73	6.0
Metropolitan	384,627	97.50 99.66	9	53.43-	108.6	6.553	96
3				1		1	11
Middle Atlantic	4,707,584	9	8,83	5.7	N 0	66.	4.14
Metropolitan Rural	4,221,762	96.70	37,156	76.45+	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.573+	23.82+
3	0 142 240	a	26 11	8.47	40	.168	4.66
Metropolitan	1,922,371	0 0 0	110,427	57.09-	105.5	6.071-	24.87+
Rural	220,878	. 7	5, 6g	4.4		. 02	60.7
See notes at end of table							

Table 2. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

100	deaths per 1,000 persons	23.70+ 23.70+ 0.00	23.60+ 23.39+ 24.68+	21.92+ 22.57+ 20.80-	23.16+ 23.49+ 22.29+	23.44+ 23.38+ 23.64+	22.18+ 22.16+ 22.21+	23.37+ 23.70+ 22.37+	24.59+ 25.15+ 22.74+	20.92 21.35 20.28-	19.47- 19.63- 19.34-	17.99- 17.58- 18.47-
ission deaths	Per 1,000 non-HMO enrollees	7.143+7.143+0.000	7.347+ 7.212+ 8.050+	7.079+ 7.026+ 7.168+	7.249+ 7.173+ 7.448+	7.677+ 7.589+ 7.985+	7.372+ 6.920 8.163+	7.120+ 6.975+ 7.541+	7.445+7.466+7.383+	6.242- 6.299- 6.155-	6.724 6.509- 6.885	6.2404 6.231-
30-day post-admi	Per 1,000 discharges	105.1	1 0 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	108.8+ 108.5+ 109.3+	108.5+	109.3+ 108.9+ 110.7+	115.2+ 112.1+ 120.1+	106.1 106.2 105.7	107.1 107.9+	107.2 108.8 104.9	109.5+ 109.2+ 109.8+	116.6+ 118.7+ 114.9+
harges	Per 1,000 non-HMO enrollees	67.59+	74.35+ 72.96+ 81.55+	65.20+ 64.90 65.71+	67.04+ 66.45+ 68.60+	70.95+ 70.23+ 73.46+	64.32 61.924- 68.52+	66.84+ 65.41 71.12+	69.50+ 69.22+ 70.38+	58.38.58.58.58.58.58.58.58.58.58.58.58.58.58	61.24- 59.35- 62.69-	54.88- 52.65- 56.87-
Disch	Number	61,355 61,355 0	121,381 99,916 21,465	452,488 284,994 167,494	317,525 228,230 89,295	89,069 68,712 20,357	39,987 24,617 15,370	84,620 62,085 22,535	67,769 51,060 16,709	36,080 21,756 14,324	134,963 56,764 78,199	22,426 10,122 12,304
enrollment	As percent of all enrollees	97.94	98.75 98.56 99.78	96.39 95.22 98.51	97.76 97.13 99.47	99. 99.60 95.95	97.86 97.01 99.41	95.90 94.73 99.68	99 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	000 000 000 000 000	93.50 88.82 97.51	77.30 67.07 89.55
Non-HMD	Number	916,155 916,155 0	1,548,180 1,383,236 264,944	6,901,975 4,398,761 2,503,214	4,745,430 3,453,558 1,291,872	1,263,869 987,528 276,341	623,062 394,457 223,605	1,265,011 952,934 312,077	982,444 744,347 238,097	6111,044 369,292 241,752	2,156,545 945,203 1,211,342	397,258 187,915 209,343
	Area of residence	New Jersey Metropolitan Rural	Pennsylvania Metropolitan Rural	North Central Metropolitan Rural	East North Central Metropolitan Rurai	Ohio Metropolitan Rurai	Indiana Metropoiitan Rurai	Illinois Metropolitan Rural	Michigan Metropolitan Rural	Wisconsin Metropolitan Rural	West North Central Metropolitan Rural	Minnesota Metropolitan Rurai

Table 2. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

0	Non-HMD 6	enrollment	Discha	rges	30-day post-adm	mission deaths	
Area of Tessidence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
	404,057 136,818 267,239	99.37 98.24 99.96	23,152 7,602 15,550	56.03- 54.99- 56.55-	114.4+ 118.5+ 112.5+	6.427 6.591 6.347	19.58- 20.46 19.16-
Missouri Metropolitan Rural	655,875 383,255 272,620	98.17 96.99 99.88	44,440 25,327 19,113	66.89+ 65.55 68.75+	106.0 102.3 111.0+	7.100+ 6.742 7.589+	21.18 21.56 20.67
North Dakota Metropolitan Rurai	85, 433 22, 964 62, 469		5,839 1,364 4,475	66.54 58.16- 69.60+	90.2- 99.8 87.2-	6.031- 5.937 6.066	17.32- 17.33- 17.32-
South Dakota Metropolitan Rural	96,216 20,427 75,789	999 99.99 9.92 51	6,362 1,167 5,195	64.25 56.58- 66.27	1105.5	6.806 6.594 6.861	19.56- 19.51 19.57-
Nebraska Metropolitan Rural	209,910 70,076 139,834	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	11,545 3,633 7,912	53.46- 51.32- 54.51-	120.1+ 115.6 122.1+	6.501 5.922- 6.773	18.96- 18.27- 19.30-
Kansas Metropolitan Rural	307,796 123,746 184,048	95.82 93.24 97.63	21, 199 7, 54s 13, 650	67.33+ 60.55- 71.77+	104.5 106.1 102.7	7.073 6.562 7.397+	19.15- 18.77- 19.42-
South Metropolitan Rural	8,980,101 5,757,016 3,223,085	97.94 96.87 99.91	608,259 363,464 244,795	67.97+ 63.52- 75.87+	102.7- 102.8 102.5	6.958+ 6.518- 7.729+	20.84- 20.48- 21.49
South Atlantic Metropolitan Rural	4,668,855 3,313,125 1,355,730	000 000 000 000 000 000	303,602 207,381 96,221	65.58+ 63.04- 71.81+	101.6- 100.9- 103.0	6.641 6.361- 7.335+	20.72- 20.28- 21.89+
Delaware Metropolitan Rural	70,251 44,355 25,896	0 0 0 0 0 0 0 0 0 0 0 4 10 4	4,695 2,788 1,907	67.83 63.87 74.57+	103.2 100.3 107.6	6.946 6.336 7.988	23.25+ 21.98 25.34+
Maryland Metropolitan Rural	436,606 395,091 41,515	0 0 0 0 0 0 0 0 4 0 0 4 7	30,866 27,970 2,896	71.54+ 71.73+ 69.79+	95.1-95.2-	6.736 6.773 6.390	22.26+ 22.20+ 22.80
District of Col. Metropolitan Rural	66,196 66,196 0	99.75 99.75 0.00	88, 841, 14, 0	50.08	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4 198 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	21.36 21.36 0.00

Table 2. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD e	enrollment	Discha	arges	30-day post-adm	ission deaths	4
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000
Virginia Metropolitan Rural	566,135 355,193 210,942	99.91 99.87 99.97	35,252 20,454 14,798	63.03- 58.52- 70.55+	100.7 101.8 99.2	6.322- 5.938- 6.953	21.19 21.01 21.50
West Virginia Metropolitan Rural	244,259 90,704 153,555	98.98 97.39 99.95	19,607 6,930 12,677	80.54+ 77.04+ 82.58+	107.5 113.5 104.3	8.572+ 8.647+ 8.528+	23.86+ 24.49+ 23.50+
North Carolina Metropolitan Rural	689,138 346,905 342,233	ოთა. თა. თა. თა. თა.	38,452 17,474 20,978	56.82- 51.28- 62.44-	112.8+ 113.7+ 112.0+	6.353- 5.776- 6.939	21.46 20.98 21.93+
South Carolina Metropolitan Rural	329,020 186,873 142,147	000 000 000 400 470	20,671 10,874 9,797	54.43 59.80- 70.49+	108.5 112.4+ 104.2	6.926 6.629 7.311+	22.55+ 22.48+ 22.65+
Georgia Metropolitan Rural	561,716 313,319 248,397	99.71 99.54 99.93	39,440 19,903 19,537	71.31+ 64.73 79.54+	103.9 105.8 101.9	7.320+ 6.771 8.000+	21.99+ 21.31 22.82+
Florida Mevropolitan Rural	1,705,534 1,514,469 191,045	90.97 90.04 99.17	1111,205 97,574 13,631	65.09 64.22 72.10+	97.3- 97.7- 93.9-	6.378- 6.334- 6.734	18.83- 18.86- 18.56-
East South Central Metropolitan Rural	1,726,272 873,594 852,678	99.80 99.64 79.99	129,504 58,403 71,101	75.04+ 67.28+ 82.91+	99.5- 101.0 98.3-	7.402+ 6.733 8.065+	21.76+ 21.28 22.23+
Kentucky Metropolitan Rurai	422,657 183,264 239,393	06.00 06.00	31,601 11,736 19,865	74.69+ 64.34 82.54+	106.6 108.4 105.5	7.905+ 6.902 8.653+	22.41+ 21.76 22.89+
Tennessee Metropolitan Rural	550,327 342,007 208,320	ა დ დ დ ტ დ ა დ დ ა დ დ	41,638 22,863 18,775	75.92+ 67.19+ 90.20+	99.6- 100.7 98.4-	7.527+ 6.728 8.825+	21.55 21.19 22.13+
Alabama Metropolitan Rural	463,131 281,960 181,171	70.00 70.00 70.00	34,325 19,416 14,909	74.45+ 69.47+ 82.12+	92.4- 95.9- 87.9-	6.804 6.591 7.123	21.11 20.76 21.63
Mississippi Metropolitan Rural	290,157 66,363 223,794	895 656 656 656 656 656 656 656 656 656 6	21,940 4,388 17,552	74.83+ 66.52 77.25+	100.0 105.4 98.8	7.379+ 6.893 7.515+	22.20+ 22.56 22.10+

Table 2. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enrollment	Discha	rges	30-day post-admi	ission deaths	4
	, , , , , , , , , , , , , , , , , , ,	percent all	4	non-HMO	Per 1,000	Per 1,000 non-HMD	deaths
Area of residence	Number	-		5	- מכיים		
West South Central Metropolitan	2,584,974	999.74	175,153	67.54+	106.8+	7.219+	20.45-
Rura	1,014,677	D	* .	0.63			
Arkansas Metropolitan Burai	321,739 100,966 220,773	900°000	23,866 6,829 17.037	73.71+ 67.52 76.52+	104.3 104.1	7.643+ 6.999 7.932+	21.58 22.12 21.33
Louisiana	415,968	0.0	2,31	4.4	0 4	7.910+	21.75
Metropolitan Rural	147,831	, O	3,13	7.48	 66	.477	1.10
Oklahoma	378,716	0.6	6,88	0.2	. 90	7.524+	02
Metropolitan Rural	180,038 198,678	96°86	11,316	76.96+	106.0	.21	1.7
€ 6 8	1,468,551	9.6	2,09	2.68	08.5	. 84	9.69
>	1,021,156	99.73	60,362	59.44	108.34	6.473-	19.96-
Rural	447,395	י ס	1,12	y . y .	0.00	9	4
West	4,539,951	3.0	4,29	6.04	1.2	.712	8.5
Metropolitan Rural	3, 642, 859 897, 092	41.96 97.88	203,235 51,064	55.82-	102.0-	5.568-	17.55-
					0	4 10	7 63
Mountain	1,200,638	94.36	63,922	53.55-	102.5	5.376-	17.78-
	479,745	7.9	7,58	7.50	98.	.630	7.39
Montana	97,248	6.6	,81	9.5	99.	. 95	7.75
Metropolitan Rural	21,173	99.90 99.91	1,111	52.68- 61.46	107.6 97.5	90.9	17.81-
Idaho	109,822	9.7	28	7.11	5	.287	7.9
Metropolitan	18,471	99.90 99.74	787 5,495	42.92- 59.95-	92.1 92.9-	3.916- 5.558-	17.65-
					0	00	α
Wyoming Metropolitan	12,265		7, 019 644 775	52.95-	108.0		19.23
Rural	30,143	מ ס	2	1.0		,	
Colorado Metropolitan	266,663	94.73	13,268	49.63- 48.87-	104.8	5.242- 5.198-	17.14-
Rural	64,926	3.2	, 42	1.94	03.	.372	7.64
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4							

Table 2. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

+	deaths per 1,000 persons	15.82- 15.55- 16.03-	17.32- 17.46- 16.88-	18.55- 18.82- 17.80-	21.08 21.73 18.50-	18.91- 19.05- 17.74-	18.19- 18.19- 18.20-	17.92- 18.04- 17.71-	19.34- 19.40- 18.05-	17.85- 18.54 17.51-	14. 14. 14. 14. 14. 14. 14. 14.
ssion deaths	Per 1,000 non-HMO enrollees	4.826- 4.138- 5.291-	5.667- 5.677- 5.636-	5.005- 4.903- 5.267-	6.600 6.782 5.940	5.794- 5.836- 5.496-	5.660- 5.634- 5.742-	5.218- 5.316- 5.064-	5.937- 5.932- 6.021-	5.676 8.620 4.305-	4.352- 4.584- 3.802-
30-day post-admi	Per 1,000 discharges	90.8- 89.7 91.4-	104.7 104.6 104.9	106.7 110.3 99.0	115.8 118.2 106.7	100.8- 101.2- 98.0-	104.6 107.0 98.1	107.2 115.3+ 96.2	99.3- 99.3- 100.3	104.8 131.5 88.2	110.9 118.4 93.8
arges	Per 1,000 non-HMD enrollees	53.20- 45.90- 58.22-	54.49- 54.49- 54.47-	48.03- 45.77- 53.95-	55.49- 55.75- 54.52-	56.93- 57.02- 56.30-	53.96- 52.36- 58.71-	49.15- 46.51- 53.13-	59.04- 58.98- 60.07-	52.61- 62.06 47.87-	39.46- 38.91- 40.85-
Disch	Number	6,663 2,346 4,317	18,731 13,889 4,842	6,157 4,247 1,910	4,387 3,462 925	190,377 166,901 23,476	24,972 18,212 6,760	15,006 8,539 6,467	146,399 137,594 8,805	833 326 505	3,166 2,227 939
enroliment	As percent of all enrollees	92.49 85.86 97.76	91.33 89.11 98.31	99.92 99.94 99.88	86.15 84.73 91.83	92.62 91.93 97.77	92.41 90.86 97.42	86.84 98.58	93.71 93.36 99.57	99.78 99.75 99.80	83.64 83.31 84.47
Non-HMD e	Number	125,371 51,612 73,759	348,748 257,931 90,817	128,579 93,319 35,260	81,799 64,385 17,414	3,339,313 2,921,966 417,347	461,706 346,977 114,729	303,778 181,677 122,101	2,477,248 2,330,007 147,241	16,348 5,625 10,723	80,233 57,680 22,553
	Area of residence	New Mexico Metropolitan Rural	Arizona Metropolitan Rural	Utah Metropolitan Rural	Nevada Metropolitan Rural	Pacific Metropolitan Rural	Washington Aetropoiitan Rural	Oregon Metropolitan Rural	California Metropolitan Rural	Alaska Metropolitan Rural	Hawaii Metropolitan Rural

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

3. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, deaths per 1,000 20.34-20.20 19.99-21.11 persons 23.33+ 21.54 23.04 21.13 21.81 21.12 21.82 21.65 21.80 22.55 21.12 21.38 21.38 21.24 22.45 20.91 22.18 22.18 21.29 21.09 30-day post-admission deaths Per 1,000 non-HMO enrollees 5.738-5.921-5.623-5.546-6.109 6.980+ 7.803+ 6.557 6.981 7.573+ 7.221 8.220 7.093 6.902 6.792 6.971 6.831 6.738 6.616 7.064 6.674 6.727 Per 1,000 discharges 108.2 118.8 95.2 109.1 108.7 113.9 111.6 102.4 101.4 1113.9 97.1 102.2 01.9 104.3 104.2 103.0 50 0 97409 108. 103. Per 1,000 non-HMD enrollees 66.48 69.38 75.06+ 61.88 68.70+ 68.84+ 65.89 60.06-69.27+ 69.27+ 53.72-54.53-54.57-49.16-59.07 65.27+ 62.35 61.52 62.16 64.56 61.61 63.85 64.59 Discharges 10,283 1,122 1,018 3,287 21,264 5,272 8,561 5,049 1,618 4,095 9,158 9,158 409,455 7,167 2,741 Number 1,724,501 100,601 As percent enrollees 96.70 99.88 98.98 97.91 99.52 93.75 95.67 98.67 91.00 79.57 97.59 97.56 96.63 99.16 95.31 99.82 98.04 96.20 enroliment of al Non-HMD 709,478 429,794 65,540 20,281 72,225 71,185 153,209 16,035 13,464 52,846 114,752 44,397 29,738 62,781 10,422 132,332 396,761 96,911 157,139 102,964 27,613 1,569,313 Number 26,698,924 6,276,897 빝 Lewiston-Auburn, Portland, ME Area of residence Boston, MA New Bedford, MA Pittsfield, MA Springfield, MA Worcester, MA New Hampshire Bridgeport, CT Hartford, CT New Haven, CT Massachusetts Manchester, NH Portsmouth, NH Rhode Island Providence, RI Burlington, VT Connecticut United States New England Bangor, ME Vermont Northeast Maine Table total

notes at end of table See

New London, CT

Table 3. Reart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

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7.893+
7.467
7.181
7.722+
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7.756+
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7.645+
7.744+ 7.120 6.492 7.106 6.891 8.799 7.924 7.924 7.928 6.788 6.788 7.372+ 8.248 7.4447 6.769 7.491 6.769 7.390 7.390 7.369+ 7.669+ 8.004 7.079+ 7.249+ Per 1,000 discharges 1109.3 1118.2 11106.5 1106.5 1106.5 1117.0 115.5 119.2 119.2 119.2 1108.6 106.1 106.1 1115.2 116.0 118.5 1124.2 1224.2 106.2 122.3 122.3 122.3 122.3 106.1 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.5 105.3 108.8+ 108.5+ Per 1,000 non-HMO enrollees 70.95+
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3. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States,

notes at end of table See

Table 3. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

Total deaths per 1,000	24.59+ 19.18 22.47 21.98 27.41+ 25.23+	23.74.00.74.0	20.92 18.75- 21.40 19.84 22.03 19.501 19.35 22.19 21.21 20.27	19.47- 17.99- 21.58 17.38- 15.79- 17.08-	19.58- 19.30 21.38 20.23 20.23 20.55 20.56
Per 1,000 non-HMD es enrollees	7.445+ 5.980 7.665 7.127 7.988+	340	6.242- 6.705- 6.074 7.009 7.006 5.256- 6.386 7.095	6.724 6.404 7.456 6.292 4.545- 6.706	6.427 6.676 6.098 5.666 7.893
30-day post-adm Per 1,000 discharges	1.70	Nowww	107.2 100.3 100.3 117.2 118.3 118.5 113.7 113.6	109.5+ 116.6+ 136.9+ 119.5+ 81.0	114.4 1111.1 1111.1 1137.7 1135.0
Per 1,000 non-HMD enrollees	69.50+ 61.40 68.71 74.25+ 73.60+ 75.75+	33.18	55 65 65 65 65 65 65 65 65 65	61.24- 54.88- 54.46- 52.90- 61.92	56.03- 58.77 60.46 51.01- 50.91- 67.12-
D:sch Number	67,769 1,093 1,157 1,598 32,595 3,234	0000004	36,080 1,809 1,1009 1,000 999 1,480 10,536 1,115 733	134,963 22,426 1,639 7,691 783	23,152 1,147 2,705 2,061 589 274 1,201
enrollment As percent of all	96.86 995.12 999.89 96.48	4.88.99.8	00000000000000000000000000000000000000	93.50 77.30 76.74 64.45 99.67	000000000 0000000 000000 0000000000000
Non-HMD e	982,444 17,760 16,831 21,618 448,826 43,084	64,091 21,046 21,512 32,460 18,957 42,162	611,044 34,483 16,955 19,185 16,529 11,858 30,776 20,503 14,461	2,156,545 397,258 29,977 141,769 9,393 12,248	404,057 19,323 44,646 40,067 11,460 6,240 15,951
- A - C - C - C - C - C - C - C - C - C	Michi Battle Benton Detroit	Grand Rapids, MI Jackson, MI Kalamazoo, MI Lansing, MI Muskegon, MI	Wisconsin Appleton WI Green Bay, WI Green Bay, WI Lacrosse, WI Racrosse, WI Miller WI Madison, WI Miller WI Miller WI Miller WI Miller WI WI	West North Central Minnesota Duluth, MN-WI Minneapolis, MN-WI Rochester, MN St. Cloud, MN	Cedar Rapids, IA Davenport, IA-IL Des Moines, IA Dubuque, IA Iowa City, IA Sioux City, IA

See

Table 3. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 Total deaths per 1,000 17.32-18.33 17.51-16.33-19.15-12.96-18.33-19.22-21.18 14.73-22.06 20.11-21.55 22.72+ 18.10-19.56-20.58 18.99 18.96-16.24-19.58-23.25+ 22.26+ 23.17+ 25.84+ 22.05 20.84-20.72-21.36 19.65-30-day post-admission deaths Per 1,000 non-HMO enrollees 7.100+ 4.222-7.472 6.509 6.730 7.114 6.720 6.031-7.431 5.454 4.462 7.073 6.879 4.477-7.161 4.198-5.262-6.958+ 6.806 6.585 6.598 6.501 4.779-6.507 6.736 6.898 8.524 6.912 6.9467.340 6.641 Per 1,000 discharges 95.1-92.9-85.2-120.1+ 106.0 86.7 99.8 98.3 1111.4 105.5 90.2-09.8 02.2 97 05.5 104.5 125.2 88.4 113.8 02.7-01.6-103.2 9.4.8 Per 1,000 non-HMD enrollees 66.89+ 73.33+ 65.91 61.94 64.15 66.54 65.26 52.96-56.18 53.46-39.30-56.92-67.33+ 54.88 50.36-62.64 71.54+ 74.87+ 101.14+ 62.21 50.98-67.83 68.86+ 53.17-67.97+ 65.58+ 64.25 62.99 Discharges 21,199 279 979 2,893 1,416 10,290 856 19,208 1,790 11,545 841 3,303 30,866 18,095 1,708 897 5,839 540 770 328 6,362 451 716 4,695 3,939 3,414 umber 44,440 303,602 508,259 As percent of all enrollees 998.17 999.98 99.95 95.72 99.97 98.28 95.13 96.57 98.52 98.50 95.39 95.82 87.78 97.26 88.57 99.94 99.75 97.94 96.31 enrollment Non-HIMO 655,875 8,560 19,275 154,919 13,630 283,167 27,676 85,433 8,160 14,138 5,687 96,216 7,152 13,275 209,910 20,994 57,609 307,796 4,965 18,983 45,844 436,606 244,878 17,051 14,522 66,196 261,121 70,251 58,114 Number 4,668,855 8,980,101 notes at end of table Washington, DC-MD-VA Wilmington, DE-NJ-MD Columbia, MO Joplin, MO Kansas City, MO-KS St. Joseph, MO St. Louis, MO-IL Springfield, MO District of Col. Cumberland, MD-WV Hagerstown, MD Area of residence Bismarck, ND Fargo, ND-MN Grand Forks, ND South Dakota Rapid City, SD Sioux Falls, SD South Atlantic North Dakota Nebraska Lincoln, NE Omaha, NE-IA Lawrence, KS Topeka, KS Wichita, KS Delaware | I ssour! Maryland Baltimore, Kansas South

Table 3. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	deaths per 1,000 persons	21.19 18.15- 24.65+ 21.28 23.52+ 20.86	23.86+ 25.17+ 23.92+ 20.62	21.28 18.64 221.28 26.08 26.08 26.08 27.08 18.38 18.38 18.39 18.39	22.55+ 18.80 22.92 22.23 31.73+ 21.86	21.99 18.15 23.01 21.09 23.50 23.50 22.15 22.15 22.15
ssion deaths	Per 1,000 non-HMD enrollees	5. 322 5. 322 5. 3248 6. 359 8. 388 8. 388	8.572+ 7.240 8.830+ 8.071	6.4.2.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.6.	6.50 6.50 6.50 6.50 6.50 6.50 6.50 6.50	7.320+ 6.860+ 7.223 7.335 6.355 5.1941 5.606
10-day post-admis	Per 1,000 discharges	100.7 87.2 129.5 111.2 108.7 89.8-	107.5 100.4 121.7 116.8 121.3	112.8+ 126.2 117.9+ 1124.5 1125.6 89.7	108.5 100.5 107.2 111.9	1003.9 1125.9 1011.7 1105.0 112.5 112.5 94.8
harges 3	Per 1,000 non-HMD enrollees	63.03- 58.88 55.13- 50.63- 60.20- 55.74	80.54 72.98+ 74.51+ 69.52 87.84+	56 422.182-182-182-182-182-182-182-182-182-182-	64.43 64.76 57.81- 55.38- 86.52+ 55.70-	71.31 65.51 66.35 66.35 66.35 65.08 88.69 95.69
Disch	Number	35,252 709 843 914 6,026 5,560 1,713	19,607 2,465 3,040 1,388 1,919	38,452 1,036 649 5,702 1,185 2,636 696	20,671 1,049 1,923 1,906 3,582	39,440 518 12,363 2,054 1,251 1,465 1,465
enrollment	As percent of all enrollees	1 C C C C C C C C C C C C C C C C C C C	999.96 999.96 899.95	86000000000000000000000000000000000000	99.44 99.70 99.90 99.96	00000000000000000000000000000000000000
Non-HMD el	Number	566,135 12,020 15,532 18,110 102,601 85,698	244,259 34,259 40,891 19,888 22,016	689, 24,46, 14,565 109,337 13,388 23,3887 55,1392 12,634	329,020 16,583 34,246 35,361 11,195 65,893	561,716 9,292 13,510 189,539 32,938 25,929 25,329
	Area of residence	Virginia Charlottesville, VA Danville, VA Lynchburg, VA Norfolk, VA Richmond, VA	West Virginia Charleston, WV Huntington, WV-KY-OH Parkersburg, WV-OH Wheeling, WV-OH	North Carolina Asheville, NC Burlington, NC Charlotte, NC Fayetteville, NC Greensboro, NC Hickory, NC Jacksonville, NC Kaleigh-Durham, NC Wilmington, NC	South Carolina Anderson, SC Charleston, SC Columbia, SC Florence, SC Greenville, SC	Georgia Albany, GA Athens, GA Atlanta, GA Augusta, GA-SC Columbus, GA-AL Macon, GA

Table 3. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD	enroliment	Disch	scharges	30-day post-admi	nission deaths	
		As percent of all		Per 1,000	er 1,	Per 1,000 non-HMD	deaths per 1,000
Area of residence	Number	-	Rumper		discharges	70 -	person
F 101 : 43	53	6.0	. 20	5.0	97.		18.83-
9 6	•	89.66		02.09	104.9	6.348	16.93-
avtona Bea	62,616	2.9	3,62	7.60	03.	0	∞ ∘
<u> </u>	181,839	1.0	, 65	4.0	90.	ω.	∞ ∘
	61,428	9.6	45	7.09	۳.	æ '	ωı
Fort Pierce, FL	41,198	9.2	, 56	3.50		. 635	-
FT. Walton Beach, FL	10,169	9.8	84	6.0	79.1	٠,	N 1
ī	16,758	9.5	,02	1.2	۲.	7	æ ∙
Jacksonville, FL	80,895	8.2	, 37	7.31	60	21	T) (
Lakeland, FL	55,495	9.5	8	6 6		۲.	æ ∘
Melbourne, FL	46,501	9.7	3,32	3.50	00.7	ຕຸ	၁ 0 (
Miami-Hialeah, FL	168,502	9.5	, 83	3.71		δ.	၁ 70 (
	23,433	7.6	.05	5.78		7	N (
Ocala, FL	31,367	9.5	.98	5.0	03	۰.	on ₁
Oriando, FL	90,604	8.5	, 55	1.9		4.1	_
Panama City, FL	11,817	9.7	16	6.4	86	S.	ອາ ເ
Pensacola, FL	29,972	9.8	32	5.7		۰,	m,
Sarasota, FL	77,895	9.8	.49	7.25		4	का
Tallahassee, FL	17,414	7.8	86	6.9	93.	ო	ശ
Tampa, FL	323,951	7.0	23	8.83	٠	S	oo ≀
West Palm Beach, FL	,72	5.2	, 94	3.7		. 922	
East South Central	1,726,272	99.80	129,504	75.04+	-5.66	7.402+	21.76+
							1
Kentucky	422,657	9.7	0	4.6	0	90	4. 4
_	31,008	80.0	2;	5.04		, c	. -
Duese Ry-IN	107,485	98.50		71.69	84.2	6.053	18.51
	210101		1	•			
Tennessee	550,327	9.6	63	5.9	66	7.527+	55
-	50,061	6.6	45	9.62	02.	٠ د	11
e, 1	12,541	თ. თ. (75	, c		ic	- 0
	10,064	9. G	20 0	7 0	20 c	4	3 6
COMPSON CITY, IN-VA	10,000	n 0	700	. c	. 4	- 10	74
Menoxia Talab	88.836	90.86	5.821	65.58	97.3	349	0
e, TN	92,994	6.6	. 67	1.9		. 2	0
See notes at end of table.				-			

Table 3. Heart disease: Enroliment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

63	deaths per 1,000 persons	21.11 24.08	2.5	0.39	2 0	7.6	0.3	ກ ນ	22.20+	0 0	. o	*	20.45-	21.58	4- 1	٠, ۲	4.0	, (1)	21.75	2.8	ω. Θ	0 .3	8.7	3.09	٦. د د	2.79	2.5	21.02			90.	
ission deaths	Per 1,000 non-HMD enrollees	6.804	. 33	. 78	8 6	. 51	. 14	.04	7.379+		20.0	, a	7.219+	7.643+	01.	.32	. 26	00.	. 91	. 71	. 18	. 41	. 63	. 15	. 15	7.543+	. 67	7.524+	0 4	60	. 94	
30-day post-admissi	Per 1,000 discharges	92.4-	9.0	4	400		01.	6	00		15.	01.	106.8+	104.3	12.	90	ნნ	O	04.	02.	5.	16.	97.	12.	06.	104.9	22.	106.0	5 5		07.	
arges	Per 1,000 non-HMO enrollees	74.45+	8.83 1.06	1.48	1.06	. w	1.4	5. B	83	7.2	0.97	7.76	67.54+		1.8	6.6	3.4	5.0	7.4	6.9	8.2	2.9	8.6	4.69	0.5	73.28+	5.1	2.0		y 0	63.02	
Disch	Number	34,325	4 -	i W	ď	ש ת	4 00	œ		2	,8	2	175,153	9	8	1,641	, 22	61	₩.	93	,67	90	66	,20	, 19	8,655	, 42	26,885	4 n	n u	4,475	
enroliment	As percent of all enrollees	76.88 76.88	o, o	. 6.	σ.	, o	. 6.	6.		6.6	6.	ω. σ	99.74	ტ ტ	9.9	86.66	ي. ي	g.	6	S.	6	0	99.9	9.9	σ.	86.66	6.	0	<u>ق</u>		08.13	
Non-HMG e	Number	463,131	108,546	16,687	14,295	17,137	29,832	13,604	290,157	18,079	35,305	8,556	2,584,974	321,739	11,803	21,413	50,966	11,012	415.968	13,819	39,583	13,501	14.620	16,436	14,648	118,708	36,822	378,716	8,215	177'8	71.032	
	Area of residence	Alabama Anniston, AL	Birmingham, AL	Florence, AL		Huntsville, AL	Montagery At	Tuscaloosa, AL	00.00.00.00	Biloxi-Gulfport, MS		Pascagoula, MS	West South Central	からいこれとして	Fayetteville, AR	Fort Smith, AR-OK	Little Rock, AR	Pine Bluff, AR			aton Rose	Houma-Thibodaux, LA	:	Lake Charles, LA		New Orleans, LA	Shreveport, LA	Oklahoma	Enid, OK	Lawton, UK	Talsa OK	

Table 3. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 persons 19. 69-119. 39-119. 39-118. 79-20. 53-115. 00-115. 00-117. 58-117. 58-117. 58-117. 58-117. 58-117. 58-118. 63-118. 17.75-15.49-20.20 17.97-19.60 18.98-17.76 20.38 18.59-17.63-Total 30-day post-admission deaths Per 1,000 non-HMD enrollees 6.8355 6.8335 287-5.952-5.325 6.322 5.712-5.479-290 938 447 ດ ດາ ດ . n Per 1,000 discharges 11089.5 11099.0 1001.0 1109 01.2-92.8-92.1 99.4 109.1 004 S 103. 102. Per 1,000 non-HMD enrollees 59.56-47.15-60.01 57.11-42.92-56.04-61.63 56.08 50.53-555 53. Discharges 5,815 567 544 2,619 298 346 ,282 254,299 63,922 Number As percent of all enrollees $\begin{array}{c} \mathbf{0} \ \mathbf{$ 99.90 93.08 99.77 94.36 9 9 1 9 6 enroliment Non-HMO 468,551 133,100 120,479 120,479 120,479 120,498 120,498 131,299 141,299 171,200 171 97,248 12,097 9,076 109,822 42,408 5,379 6,886 ,200,638 Number ,539,951 Abilong TX
Austin 0, TX
Austin 1 TX
Beaumont, TX
Brazoria, TX
Browns 1 TX
Corpus Christi, TX
Corpus Christi, TX
Corpus TX
Corp Lubbock, TX
Lubbock, TX
Midland, TX
Midland, TX
Modessa, TX
San Antonio, TX
Sherman-Denison, T
Texarkana, TX-AR
Tyler, TX
Waco, TX
Waco, TX
Wichita Falls, TX × Area of residence 눌 Boise City, ID Wyoming Casper, WY Cheyenne, WY Billings, MT Great Falls, Mountain Montana Idaho West

Table 3. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

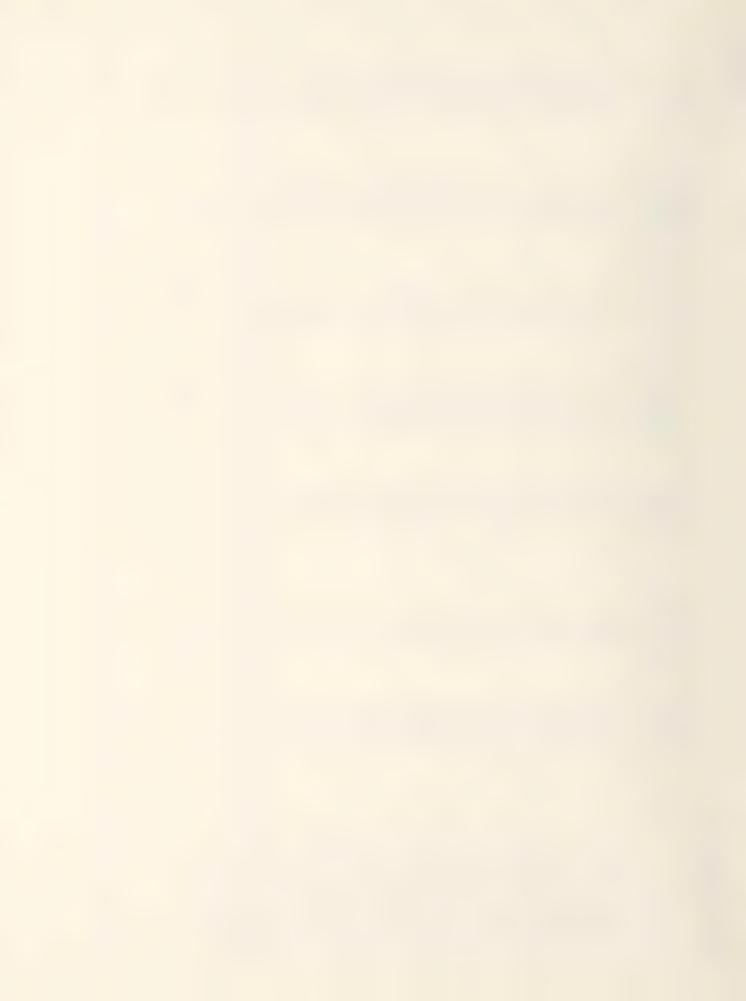
4	deaths per 1,000 persons	17.14- 15.17- 16.66- 16.92- 17.89- 17.83-	23.99	7.48	18.28- 18.94- 22.08 19.59	8.91 8.19	17.23- 17.44- 18.78- 15.52-	9.16 0.79 8.35 8.43	17.92- 16.16- 17.08- 18.55- 18.22-
ission deaths	Per 1,000 non-HMD enrollees	2.24 2.24 2.184 2.291 1.191 1.191	. 153 . 145 . 978	4.00	5.43/ 4.792- 6.600 7.367 5.460	. 794	5.5718 6.011 5.439 7.428	4000	7. 218 7. 138 7. 138 7. 138 7. 138 7. 138 7. 138
30-day post-admi	Per 1,000 discharges	104.8 73.7- 112.8 107.3 103.9 113.2	9993. 789.	13.	1109.1 110.6 1115.8 1110.4	0 4		47.14	110.0 110.0 101.9 120.0+
a rges	Per 1,000 non-HMD enrollees	49.63- 58.53 45.07- 48.39- 49.02- 50.36-	3.20 7.70 9.10	+ 4. 8 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	51.38- 44.60- 55.49- 77.96-	6.93	55.05 56.05 56.05 56.83 56.83	86.00	49.15- 46.26- 48.93- 45.27- 48.95-
Disch	Number	13,268 895 1,107 5,778 744 589 735	6,66 1,47 33	044 B	3,426 3,426 2,567 895	37	- 00	707	15,006 1,338 995 4,550 1,656
enroliment	As percent of all enrollees	94.73 97.96 95.03 94.10 99.71	4000	100 0	99.93 99.94 82.98 89.17	2.6	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9.32	86.84 88.67 99.76 72.79 90.39
Non-HMD e	Rumber	266,663 15,143 24,899 119,624 15,089 11,610 15,372	25,37 33,78 9,37 8,45	8,7,38 0,55 8,57	16,076 77,243 81,799 45,252 19,133	9,31		41,23 50,24 17,04 22,73	303,778 28,947 20,326 99,155 33,249
986	Area of residence	Colorado Boulder-Longmont, CO Colorado Springs, CO Denver, CO Fort Collins, CO Greeley, CO	ew Me uquer Cruc ta Fe	Arizona Phoenix, AZ Tucson, AZ Utah	Provo-Orem, UT Salt Lake City, UT Nevada Las Vegas, NV Reno, NV	Pacific	Machingham, WA Bremerton, WA Clympia, WA Richland, WA	Care,	Dregon Eugene, DR Medford, DR Portland, DR Salem, DR

Table 3. Heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1985 per 1,000 119.38-118.38-11 14.35-14.35persons 17.85-8.54 deaths Total 30-day post-admission deaths Per 1,000 non-HMO enrollees 5.727-5.946 5.757 6.546 5.548-5.661-4.916-4.723-5.818 5.801 5.133-5.412-5.937-6.376 4.352-6.211 6.317 6.432 6.218-7.881 5.687 5.727 5.946 6.597 6.370 5.6768.620 Per 1,000 discharges 99.3-100.4 85.5-1111.4 196.0-196.9 198.3 108.7 108.7 108.7 108.6 108.6 108.6 108.6 108.6 108.7 108.6 108.7 108.7 90.4 104.8 110.9 Per 1,000 enrollees 71.43+ 60.38 56.89-63.42 73.46 64.86 56.91-53.35-59.41 64.26 53.42-52.95-54.24-47.80-51.08-52.61-62.06 39.46-38.91non-HMD 49.70-61.28 Discharges 10,357 3,178 1,632 3,345 43,144 12.000 10.01 10.01 10.01 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.00 3,166 2,227 Number As percent enrollees 99.78 83.64 of all Non-HMO enroliment 80,233 27,102 58,425 677,939 13,462 33,619 49,488 17,796 203,246 120,273 29,131 163,753 24,640 40,855 5,625 2,477,248 205,402 Number 38,021 67,171 811 Anaheim-Santa Ana, CA CA Diego, CA Francisco, CA Barbara, CA Merced, CA
Modesto, CA
Modesto, CA
Oxnard-Ventura, CA
Cxnard-Ventura, CA
Cxnard-Ventura, CA
Cxnard-Ventura, CA
Cxnard-Ventura, CA
Cxnard-Cxnar Area of residence Bakersfield, CA Yuba City, CA Anchorage, AK California Fresno, CA Chico, CA Alaska Hawaii

organizations (HMDs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (P<.O1). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (Population). NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance

Honolulu, HI

4.584-



Ischemic heart disease

population was 14.56 per 1,000 persons; this Ischemic heart disease is a major category neart disease in 1986. Ischemic heart disease Medicare population not enrolled in health 1986. The 30-day post-admission mortality includes the diagnoses of acute myocardial one-half of all discharges for heart disease rate for aged Medicare enrollees was 98.6 disease, for a rate of 30.73 discharges per condition accounted for 28 percent of all deaths among persons aged 65 or over in deaths per 1,000 discharges, or about 10 infarction, angina pectoris, and coronary and about 70 percent of all deaths from of heart disease, accounting for about maintenance organizations, there were 820,480 discharges for ischemic heart 1,000 enrollees. The death rate from atherosclerosis. In 1986, in the aged schemic heart disease in the aged

Age and sex patterns

disease were higher for men than for women decreasing with age. The difference in death from 57 to 18 percent higher for men in the three age groups 65 years or over, with the morbidity and mortality among men than in all age groups. Discharge rates ranged women. As shown in Table 1, discharge rates and death rates for ischemic heart Ischemic heart disease causes more difference between men and women

NOTE: Ischemic heart disease is ICD-9-CM codes 410 - 414

rates between men and women in the general per 1,000 persons versus 4.90 for women); in the age group 65-74 years, the death rate for aged population also decreased with age. In the group 85 years or over, the rate for men Men also had higher 30-day post-admission was 19 percent higher (53.76 versus 45.00). men was 112 percent higher (10.40 deaths death rates than women in all three age

enrollees). The rates for enrollees aged 65-74 schemic heart disease was for enrollees aged deaths per 1,000, the rate for persons 75-84 mortality rates also increased substantially The rate for persons aged 65-74 was 7.33 ischemic heart disease increased with age. years was 18.29, and that for persons 85 years or over was 47.48. Post-admission By age, the highest discharge rate for about 29 discharges per 1,000 (Table 1). 75-84 years (34.40 discharges per 1,000 years and 85 years or over were similar-However, the population death rate for as age increased.

Patterns by race

The discharge rate for white men was 57-85 notably higher for white persons than black percent higher than the rate for black men persons overall (31.68 versus 21.88) and in each age group for both men and women. in the three age groups; the rate for white women was 14-35 percent higher than the enrollees for ischemic heart disease were In 1986, discharge rates per 1,000 rate for black women.

black persons than white persons, especially lower for black men in all three age groups. Overall, population death rates were also higher for white than black persons (14.92 death rate in the group 65-74 years, a rate group 75-84 years, and a lower rate in the versus 12.23). Population death rates were similar to that of white women in the age post-admission mortality were lower for In contrast, black women had a higher group 85 years or over. Rates of 30-day in the older age groups.

Variations by geographic area

and mortality by geographic area. The tables are broken out by U.S. census region, Tables 2 and 3 contain data on utilization in Table 2, whereas data at the metropolitan and rural areas within each State are shown Table 3. Figures 1-3 were derived from the division, and State. Data on metropolitan statistical area (MSA) level are shown in data in these tables.

Discharge rates

for ischemic heart disease was similar to the The geographic pattern of hospitalization discharge rate (40.29 discharges per 1,000 pattern for all heart disease. In 1986, the rates were generally found in the Western highest rates were generally found in the Southern and Middle Atlantic States, as shown in Figure 1. The lowest discharge enrollees), and Hawaii had the lowest States. West Virginia had the highest

(18.03). The New England, Middle Atlantic, and East South Central Divisions had the highest median discharge rates for MSAs and rural areas; the Mountain and Pacific Divisions had the lowest rates (Figure 2).

Population death rates

In 1986, the highest population mortality rates from ischemic heart disease generally were found in the Northeastern United States and the lowest rates generally were found in the Western States, with the exception of California (Figure 3). New York had the highest rate (20.02 per 1,000), and the District of Columbia had the lowest (8.40 per 1,000), followed by New Mexico (8.47).

Correlations between rates

with higher discharge rates to be less severely indirect but small correlation of -0.32 was heart disease discharge rate (discharges per across MSAs and rural areas. A significant ,000 enrollees) and population death rate there may be a tendency for cases in areas hospitalizations for ischemic heart disease found between the 30-day post-admission MSAs and rural areas. This suggests that indicating a direct but small relationship The correlation between the ischemic discharge rate per 1,000 enrollees across death rate per 1,000 discharges and the (deaths per 1,000 persons) was 0.31, between population mortality and II, on average

Urban-rural patterns

for Medicare enrollees residing in rural areas discharges was also higher for rural residents discharge rate for rural residents was seen in in the Nation as a whole and in each region In the Nation as a whole, the discharge deaths per 1,000 versus 14.82) and in each than for urban residents (33.92 discharges except the Northeast. The death rate from rate for ischemic heart disease was higher schemic heart disease in the general aged copulation was lower for rural residents han urban residents nationwide (14.04 per 1,000 versus 29.51). The higher post-admission death rate per 1,000 all four census regions. The 30-day sensus region except the South.

Table 1. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by age, sex, and race: United States, 1986

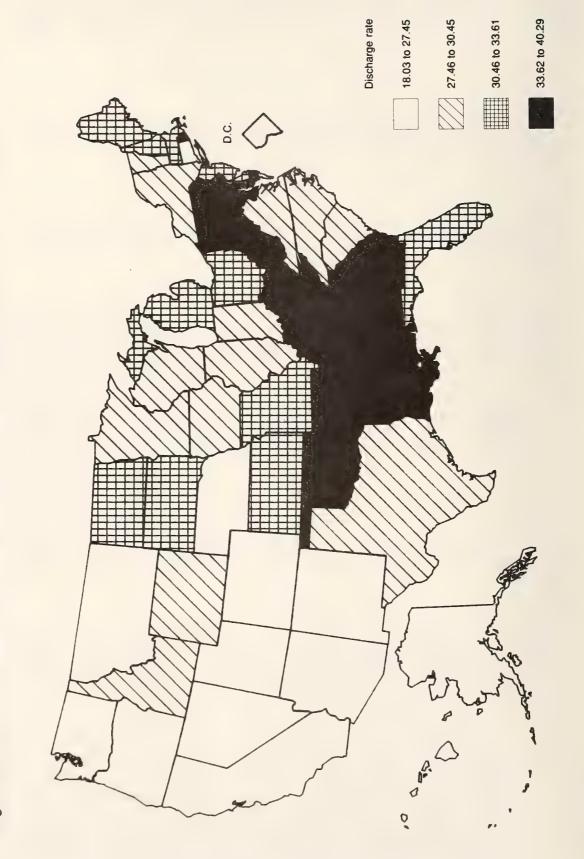
	- CMH-noN	enrollment	Dischai	rges	30-day post-acmi	ission deaths	-
Age, sex, and race	Number	As percent of all enrollees	N u abe r	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
All persons (1) 65-74 years 75-84 years 85 years or over	26,698,924 16,162,594 8,020,447 2,515,883	96.33 96.33 98.33	820,480 470,000 275,926 74,554	30.73 29.07 34.40 29.63	98.6 68.9 124.7	3.03 2.00 5.60	14.56 7.33 18.29 47.48
Men 65-74 years 75-84 years 85 years or over	10,650,991 7,056,445 2,912,366 682,180	96.01 95.90 96.02 97.22	395,349 258,113 114,462 22,774	37.11 36.57 39.30 33.38	100.2 70.8 143.1 216.8	3.72 2.59 5.63 7.24	17.18 10.40 24.02 53.76
Women 65-74 years 75-84 years 85 years or over	16,047,933 9,106,149 5,108,081 1,833,703	97.16 96.66 97.51	425,131 211,887 161,464 51,780	26.49 23.26 31.60 28.23	97.1 66.6 111.7 176.9	2.57 3.557 4.99	12.77 4.90 14.88 45.00
White 65-74 years 75-84 years 85 years or over	23,574,066 14,207,064 7,134,499 2,232,503	96.62 96.23 96.88	747,037 425,679 252,707 68,651	31.68 29.96 35.42 30.75	99.8 69.2 126.4 191.7	3.16 2.07 4.48 5.90	14.92 7.40 18.63 49.03
Men 65-74 years 75-84 years 65 years or over	9,391,016 6,216,472 2,573,989 600,555	995.994	363,817 237,247 105,584 20,986	38.74 38.16 41.01 34.94	100.9 70.9 144.5 220.2	3.91 2.71 7.69	17.69 10.62 24.72 56.09
Women 65-74 years 75-84 years 85 years or over	14,183,050 7,990,592 4,560,510 1,631,948		383,220 188,432 147,123 47,665	27.01 23.58 32.26 29.20	98.8 67.0 113.4 179.2	2.67 3.66 5.23	13.03 4.83 15.02 46.30
Black 65-74 years 75-84 years 85 years or over	1,991,943 1,213,014 583,429 195,500	97.54 97.54 98.11	43,589 25,080 14,242 4,267	21.88 20.67 24.41 21.82	84.4 65.5 100.1 142.7	1.35 2.44 3.12	12.23 7.45 16.19 32.84
Men 65-74 years 75-84 years 85 years or over	792, 788 519, 305 215, 401 58, 082	97.49 97.28 97.67 98.74	17,051 10,691 5,067 1,293	21.50 20.58 23.52 22.26	92.5 70.7 120.4 163.2	2.1.5. 2.4. 2.4. 2.4. 3.4. 3.4. 3.4. 3.4. 3.4	13.54 9.19 18.57 34.95
Women 65-74 years 75-84 years 85 years or over	1,199,155 693,709 368,028 137,418	98.10 97.74 98.37 99.26	26,538 14,389 9,175 2,974	22.13 20.74 24.93 21.64	79.2 61.6 88.9 133.8	1.75 1.28 2.22 2.90	11.34 6.134 31.96

(1)Includes persons of other races in addition to white and black persons.

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.

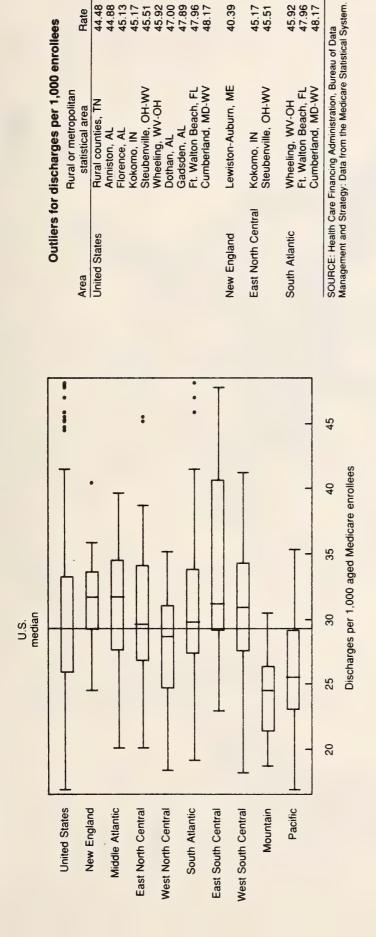
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (Population).

Figure 1. Ischemic heart disease: Short-stay hospital discharges per 1,000 aged Medicare enrollees, by State: 1986



NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

Figure 2. Ischemic heart disease: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by division: United States, 1986



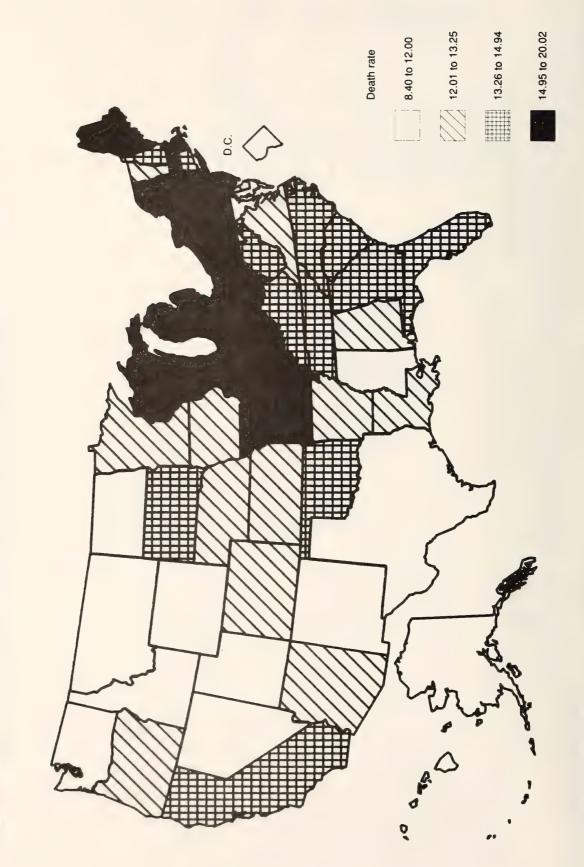


Figure 3. Ischemic heart disease: Deaths per 1,000 aged population, by State: 1986

SOURCES: Population death rates were derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

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Table 2. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986 deaths per 1,000 persons 14.61 14.82+ 14.04-15.16+ 15.35+ 14.02 15.38+ 15.63+ 11.58-17.96+ 17.96+ 0.00 17.89+ 17.96+ 17.28+ 17.18+ 17.30+ 16.24+ 15.58+ 15.13 16.10+ 13.05-12.06 13.24-14.14 14.09-15.76 20.02+ 20.33+ 17.36+ 14.64 15.11 13.76 30-day post-admission deaths Per 1,000 non-HMO enroilees 3.424+ 3.498+ 2.448-3.521+ 3.521+ 0.000 3.028 2.884-3.405+ 3.041 3.011 3.271+ 3.235+ 3.260+ 3.094 3.529+ 3.517 3.544 2.659-2.631-3.537 2.976 2.932-3.354+ 2.795-2.759-3.102 3.379 3.552 3.067 3.100 3.545 3.013 Per 1,000 discharges 98.6 97.7 100.5+ 103.1+ 103.9+ 98.1 102.7 104.7+ 75.4-96.4-96.8 105.3 104.9 105.8 110.2 114.3 102.5 105.2 115.0 103.2 100.3 101.2 100.8 112.6 98.1 98.6 94.8 100.2 101.0 94.3 Per 1,000 non-HMD enrollees 30.73 29.51-33.92+ 30.98 30.49 34.82+ 33.31+ 33.30+ 33.32 33.15+ 33.15+ 33.09 34.78+ 34.78+ 0.00 26.21-25.99-33.11 30.90 30.28-36.27+ 27.84-27.21-33.27+ 31.24 31.15 31.73 30.59 31.36 29.20 30.19 31.63 29.91 Discharges 820,480 570,097 250,383 193,827 168,943 24,884 48.846 41.624 7.222 23,366 21,690 1,676 10,371 9,970 401 144,981 127,319 17,662 59,544 52,165 7,379 5,117 2,739 2,378 3,512 2,319 1,193 1,903 329 1,574 4,577 Number As percent of all enrollees 96.70 95.80 99.16 96.20 95.66 99.53 99.88 99.89 99.87 98.98 98.55 99.77 93.75 93.40 98.58 97.56 97.50 99.66 98.68 98.55 99.76 98.98 98.89 99.75 98.04 97.84 99.69 99.82 99.91 99.80 97.59 97.59 0.00 enrollment Non-HMO 26,698,924 19,363,284 7,335,640 6,276,897 5,564,648 712,249 1,569,313 1,342,886 226,427 4,707,584 4,221,762 485,822 2,143,249 1,922,371 220,878 53,209 82,345 70,864 114,752 74,135 40,617 62,781 10,422 52,359 709,478 659,025 50,453 132,332 396,761 384,627 12,134 Number Metropolitan Rural Metropolitan Middle Atlantic Metropolitan New York Metropolitan Area of residence United States Metropolitan Metropolitan Rural Metropolitan Metropolitan Metropolitan Rhode Island Metropolitan Metropolitan New Hampshire Massachusetts Connecticut New England Northeast Vermont Rural Rural Rurai Rural Rural Rurai Rura Maine

Table 2. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1985

	Non-HMD	enroliment	Discha	arges	30-day post-admi	ission deaths	- 1
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 Persons
New Jersey Metropolitan Rural	916,155 916,155 0	97.84	28,795 28,795 0	31.56+ 31.56+ 0.00	000	3.031 3.031 0.000	17.42+
Pennsylvania Metropolitan Rural	1,648,180 1,383,236 264,944	98.75 98.56 99.78	56,642 46,359 10,283	34.52+ 33.70+ 38.78+	92.4- 92.3-	3.185+ 3.1111 3.569+	15.24+ 14.86 17.21+
North Central Metropolitan Rural	6,901,975 4,398,761 2,503,214	96.39 95.22 98.51	211,937 130,889 81,048	30.70 29.88- 32.13+	104.0+102.1+	3.173+ 3.022 3.428+	15.44+ 15.83+ 14.79
East North Central Metropolitan Rural	4,745,430 3,453,558 1,291,872	97.76 97.13 99.47	147,991 105,074 42,917	31.24+ 30.55 33.05+	102.1+101.2+104.1+	3.158+ 3.055 3.423+	16.49+ 16.56+ 16.30+
Ohio Metropolitan Rural	1,263,869 987,528 276,341	0 0 0 0 0 0 4 0 0 0 0 0 0	41,034 31,326 9,708	32.58+ 31.88+ 35.06+	104.5+	3.326+ 3.244+ 3.611+	16.28+ 16.28+ 16.68+
Indiana Metropolitan Rural	623,062 399,457 223,605	97.06 97.01 99.41	18,676 11,499 7,177	30.04 28.90- 32.06	106.9+ 104.3 110.8+	3.188 2.983 3.549+	15.75+ 15.69+ 15.85+
Illinois Metropolitan Rural	1,265,011 952,934 312,077	06.00 06.00 06.00 06.00	38,419 27,457 10,962	30.45 28.95- 35.00+	100.1 99.9 100.6	3.048 2.886 3.527+	16.54+ 16.47+ 16.76+
Michigan Metropolitan Rural	982,444 744,347 238,097	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	32,967 24,709 8,258	33.61+ 33.35+ 34.42+	97.2 95.9 101.1	3.253+ 3.173 3.501+	17.56+ 17.74+ 16.98+
Wisconsin Metropolitan Rural	611,044 369,292 241,752	0 0 0 0	16,895 10,083 6,812	27.52- 27.29- 27.85-	105.0+ 106.1 103.4	2.863 2.840 2.898	15.67+ 16.11+ 15.02
West North Central Metropolitan Rural	2,156,545 945,203 1,211,342	93.50 88.82 97.51	63,946 25,815 38,131	29.53- 27.42- 31.16	108.1+ 105.4+ 109.9+	3.206+ 2.903 3.432+	13.38- 13.47- 13.30-
Minnesota Metropolitan Rurai	397,258 187,915 209,343	77.30 67.07 89.55	10,974 4,627 6,347	27.55- 24.84- 29.94	118.5+ 118.8+ 118.2+	3.299 2.964 3.590 4	12.45- 12.06- 12.91-

Table 2. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD e	enroliment	Disch	arges	30-day post-admi	ission deaths	4
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000 persons
Iowa Metropolitan Rural	404,057 136,818 267,239	999.37 98.24 99.96	11,419 3,596 7,823	28.14- 26.33- 29.06-	110.5+ 115.2+ 108.4+	3.129 3.076 3.155	12.56- 12.05- 12.81-
Missouri Metropolitan Rural	655,875 383,255 272,620	98.17 96.99 99.88	20,479 11,311 9,168	31.16 29.61- 33.31+	103.4 95.2 113.5+	3.219+ 2.831 3.750+	15.00+ 15.56+ 14.24
North Dakota Metropolitan Rurai	85,433 22,964 62,469	98.28 98.14 98.34	2,813 659 2,154	32.44 28.53 33.86+	89.1 97.6 86.4	2.937 2.899 2.951	12.00- 12.75 11.72-
South Dakota Metropolitan Rural	96,216 20,427 75,789	999 999 999 999	2,974 562 2,412	30.58 27.48 31.41	113.5 126.2 110.6	3.541 3.517 3.422	13.70 13.54 13.74
Nebraska Metropolitan Rural	209,910 70,076 139,834	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5,372 1,676 3,696	25.43- 24.02- 26.12-	122.6+ 120.3+ 123.6+	3.174 2.907 3.301	13.01- 12.91- 13.07-
Kansas metropolitan Rural	307,796 123,748 184,048	95.82 93.24 97.63	9,915 3,364 6,531	32.09+ 27.41- 35.21+	99.1 100.6 98.4	3.180 2.737 3.462+	13.14- 12.30- 13.69-
South Metropolitan Rural	8,980,101 5,757,016 3,223,085	97.94 96.87 99.91	295,316 175,454 119,862	32.88+ 30.53 37.06+	9.00 - 8.00 - 8.00 - 8.00	3.192+ 2.927- 3.656+	13.11- 12.86- 13.58-
South Atlantic Metropolitan Rural	4,668,855 3,313,125 1,355,730	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	150,915 102,851 48,064	32.37+ 31.10 35.47+	93.7- 92.1- 97.1	3.039 2.878- 3.438+	13.43- 13.19- 14.08-
Delaware Metropolitan Rural	70,251 44,355 25,896	000 000 000 000 000 000	2,316 1,380 936	33.07 31.30 36.09+	94.0 95.0 5.5	3.145 2.984 3.419	12.53- 11.22- 14.70
Maryland Metropolitan Rural	436,606 395,091 41,515	999. 99. 99. 95.	15,334 13,962 1,372	35.27+ 35.52+ 32.92	85.7- 86.3- 80.4	3.013 3.056 2.607	11.46-11.32-12.77-
District of Col. Metropolitan Rural	66,196 66,196 0	99.75 99.75 0.00	1,294	19.72- 19.72- 0.00	9.999	1.300-	88 80 0 4.00 0 1.00 0

Table 2. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division. State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enrollment	Disch	3 r g e s	30-day post-adm	mission deaths	4
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
Virginia Metropolitan Rural	566,135 355,193 210,942	99.91 99.87 99.97	16,527 9,540 6,987	29.32- 27.06- 33.08+	97.7 99.0 95.8	2.857 2.676- 3.154	13.00- 12.80- 13.35-
West Virginia Metropolitan Rural	244,259 90,704 153,555	86. 86. 86. 86. 86.	9,835 3,451 6,384	40.29+ 38.22+ 41.51+	93.6 102.2 89.1-	3.759+ 3.818+ 3.724+	14.94 15.28 14.74
North Carolina Metropolitan Rural	689,138 346,905 342,233	ო თ დ თ დ თ ი თ თ თ	20,184 9,176 11,008	29.49- 26.67- 32.34+	109.2+ 109.3+ 109.1+	3.224+ 2.930 3.521+	14.52 14.47 14.56
South Carolina Metropolitan Rural	329,020 186,873 142,147	000 000 400 400	9,527 5,075 4,452	29.19- 27.41- 31.52	111.3+ 116.0+ 106.0	3.215 3.138 3.315	14.54 14.76 14.26
Georgia Metropolitan Rural	561,716 313,319 248,397	0000 0000 	19,533 9,546 9,987	35.03+ 30.77 40.38+	0 0 0 0 0 0 0 0 0 0 0	3.330+ 2.925 3.833+	13.58- 12.99- 14.28
Florida Metropolitan Rural	1,705,534 1,514,489 191,045	90.97 90.04 99.17	56,365 49,427 6,938	32.85+ 32.47+ 35.83+	86.3- 86.2- 87.0-	2.871- 2.840- 3.136	13.44. 13.45- 13.66-
East South Central Metropolitan Rural	1,726,272 873,594 852,678	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	61,787 27,375 34,412	35.80+ 31.46 40.22+	97.1 97.6 96.6	3.476+ 3.049 3.901+	13.43- 12.86- 14.00-
Kentucky Metropolitan Rural	422,657 183,264 239,393	0 / 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15,061 5,341 9,720	35.62+ 29.31 40.40+	101.5 103.8 100.3	3.622+ 3.006 4.082+	14.73 14.07 15.22
Tennessee Metropolitan Rural	550,327 342,007 208,320	0000 000 000 000 000	19,830 10,535 9,295	36.07+ 30.91 44.48+	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3.546+ 3.007 4.420+	14.04- 12.81- 16.02+
Alabama Metropolitan Rural	463,131 281,960 181,171	70.00	16,913 9,492 7,421	36.59+ 33.79+ 40.92+	89.3- 93.5 84.1-	3.275+ 3.145 3.471+	12.51- 12.39- 12.69-
Mississippi Metropolitan Rural	290,157 66,363 223,794	89 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9,983 2,007 7,976	34.32+ 30.26 35.52+	100.8 99.8 101.0	3.448+ 3.580+	11.86- 11.69- 11.92-

Table 2. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

+	deaths	200	12.32- 12.13- 12.61-	12.31- 12.33- 12.30-	13.14- 13.10- 13.21-	14.63 14.19 15.02	11.47- 11.47-	12.88- 13.11- 11.80-	11.41.11.09.11	11.09- 10.52- 11.25-	11.67- 13.61 11.29-	11.91- 10.83- 12.34-	12.31- 12.12- 12.88-	
ssion deaths	Per 1,000	0 - - - -	3.273+ 2.966 3.730+	3.570+ 3.440 3.629+	3.345+ 3.204 3.589+	3.557+ 3.104 3.955+	3.111 2.830- 3.727+	2.468- 2.452- 2.536-	2.489- 2.392- 2.634-	2.796 2.670 2.831	2.513- 1.757- 2.662	3.188 2.320 3.531	2.331- 2.274- 2.502-	
30-day post-admi	Per 1,000	0 - 0 - 0 - 0	102.7+ 103.2+ 102.2	95.9 102.6 93.3	101.6 105.3 96.5	103.1 103.0 103.1	104.8+ 102.7 108.6+	40 90 90 10 10 10 10	98.9 100.2 97.3	102.8 118.4 99.5	91.2 86.5 91.8	109.5 98.0 113.0	97.8 98.1 96.9	
arges.	Per 1,000 non-HMO		31.86+ 28.82- 36.53+	37.43+ 33.81+ 39.06+	33.77+ 31.35 38.14+	34.17+ 29.80 38.08+	29.50- 27.48- 34.07+	26.19- 25.98- 27.03-	25.18- 23.86- 27.14-	27.38- 22.29- 28.79	27.59- 20.88- 28.93	28.49 23.51	23.59- 22.83- 25.89-	
Disch	1	D.	82,614 45,228 37,386	12,117 3,414 8,703	14,048 8,381 5,667	12,987 5,357 7,630	43,462 28,076 15,386	119,400 94,811 24,589	30,419 17,224 13,195	2,689 474 2,215	3,066 386 680	1,217 286 929	6,303 1,703	
enrollment	e	enrollees	99.74 99.59 79.90	0000 0000 0000	8 8 8 6 6 6 7 6 6 8 6 7 8 7 8 7	99.02	999. 990.73	93.08 91.96 97.88	94.36 92.10 97.98	99.90 99.90 99.91	99.77 99.90 99.74	999 990 993 993	94.73 95.23 93.22	
Non-HMD e	4	Kenner	2,584,974 1,570,297 1,014,677	321,739 100,966 220,773	415,968 268,137 147,831	378,716 180,038 198,678	1,468,551 1,021,156 447,395	4,539,951 3,642,859 897,092	1,200,638 720,893 479,745	97.248 21.173 76.075	109,822 18,471 91,351	42,408 12,265 30,143	266,663 201,737 64,926	
	•	Area of residence	West South Central Metropolitan Rural	Arkansas Metropolitan Rural	Louisiana Metropolitan Rural	Oklahoma Metropolitan Rural	Texas Metropolitan Rural	west Metropolitan Rural	Mountain Metropolitan Rural	Montana Metropolitan Rural	Idaho Metropolitan Rural	Wyoming Metropolitan Rural	Colorado Metropolitan Rural	See notes at end of table

Table 2. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

Total	deaths per 1,000	8.47- 8.30- 8.61-	12.17- 12.42- 11.35-	10.77- 10.91- 10.38-	10.50- 10.38- 11.00-	13.37- 13.46- 12.61-	11.81- 11.53- 12.70-	13.25- 13.42- 12.92-	13.84 13.88 13.07	11.54- 13.21 10.75-	9.02- 8.94- 9.22-
mission deaths	Per 1,000 non-HMD enrollees	2.223- 1.958- 2.402-	2.517- 2.546- 2.435-	2.345- 2.334-	2.783 2.696 3.098	2.461- 2.467- 2.423-	2.567- 2.524- 2.697	2.301- 2.356- 2.218-	2.488- 2.480- 2.618-	2.471 3.417 2.018	1.631- 1.851- 1.104-
30-day post-adm	Per 1,000 discharges	91.55	97.8 98.6 95.4	105.4 108.1 99.1	110.4 106.8 123.7	92.3-	100.1 101.8 95.7	100.5 110.2 88.0	90.00	116.4 146.5 99.8	91.7 101.1 66.5
harges	Per 1,000 non-HMD enrollees	24.29- 21.26- 26.39-	26.01- 26.03- 25.97-	22.70- 22.04- 24.44-	24.48- 24.53- 24.26-	26.55- 26.50- 26.90-	25.60- 24.72- 28.23-	23.30- 21.76- 25.55-	27.45- 27.34- 29.03-	20.89- 21.88- 20.38-	18.03- 18.53- 16.78-
Disc	Number	3,069 1,097 1,972	9,119 6,725 2,394	2,940 2,066 874	2,016 1,588 428	88,981 77,587 11,394	11,878 8,597 3,281	7,120 3,958 3,162	68,155 63,819 4,336	346 123 223	1,482 1,090 392
enrollment	As percent of a!!	92.49 85.86 97.76	91.33 89.11 98.31	999 999 999 88	86.15 84.73 91.83	92.62 91.93 97.77	92.41 90.86 97.42	86.84 80.38 65	93.71 93.36 99.57	99.78 99.75 99.80	83.64 83.31 84.47
Non-HMD e	Number	125,371 51,612 73,759	348,748 257,931 90,817	128,579 93,319 35,260	81,799 64,385 17,414	3,339,313 2,921,966 417,347	461,706 346,977 114,729	303,778 181,677 122,101	2,477,248 2,330,007 147,241	16,348 5,625 10,723	80,233 57,680 22,553
	Area of residence	New Mexico Metropolitan Rural	Arizona Metropolitan Rural	Utah Metropolitan Rural	Nevada Metropolitan Rurai	Pacific Metropolitan Rural	Washington Metropolitan Rural	Oregon Metropolitan Rural	California Metropolitan Rural	Alaska Metropolitan Rural	Hawaii Metropolitan Rural

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMDs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 3. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division. State, and metropolitan statistical area: United States, 1986

	Non-HMD enrolime	enroliment	Disch	Discharges	30-day post-adm	post-admission deaths	7049
Area of residence	Nember	As percent of all enrollees	N c Bb e 1	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000
United States	26,698,924	96.70	820,480	30.73	98.6	3.028	14.61
Northeast	6,276,897	98.04	193,827	30.98	98.1	3.041	17.18+
New England	1,569,313	96.20	48,846	31.24	103.1+	3.235+	15.16+
39 -: B	153,209	99.88	5,117	33.31+35.82	105.3	3.529+	15.58+ 14.27
a P P	13,464		1,621	40.39+	83.5 108.8		က်က်
Manchester, Mr Portsmouth, Mr	114,752 44,397 29,738	98.99.99.99.99.52.	3,512 1,378 941	30.59 31.16 31.67	110.2 121.7+ 103.1	3.379 3.783+ 3.201	14.64 15.83 14.02
Vermont Burlington, VT	62,781	99.82 99.91	1,903	30.19	105.2 115.0	3.100	13.05-
Massachusetts Boston, MA New Bedford, MA Pittsfield, MA Springfield, MA Worcester, MA	709,478 429,794 65,540 20,281 72,225 71,185	93.75 95.67 98.67 91.00 79.57	23,366 14,357 2,1357 1,999 2,512	33. 33. 33. 51. 31. 35. 64. 35. 64. 44. 35. 61. 44.	102.7 116.1 114.1 121.8+ 98.8		15.38 17.38 17.51 18.64 15.09
Rhode Island Providence, RI	132,332	97.59 97.59	4,577	34.78+	100.3	3.521+	17.96+
Connecticut Bridgeport, CT Hartford, CT New Haven, CT New London, CT	396,761 96,911 157,139 102,964 27,613	99 99 99 99 99 99 99 99 16 99 99 99 70	10,371 2,539 4,132 2,515 784	26.21- 26.29- 24.51- 28.44	101.2 101.0 101.0 100.2	2.659- 2.704 2.450- 2.450-	14.14 14.49 13.07 13.58 166

Table 3. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

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	NOH-HELD CHICK						-
res idence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000 persons
Atlantic	4,707,584	98.68	144,981	30.90	96.4-	2.976	17.89+
410	143.24	0	54	7.84	00	. 79	0.0
× >-	115.12	00	3.0		3	2.791	18.04+
- 6		0	17	m	82.	. 59	8.6
• >		4	78	8	13.	. 18	4.0
- >		. 0	35	6.74	0.5	. 85	8.0
		. "	3	α	0	66	8.2
2 2 2		9 0	2 0	90.0		8	0.1
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alls, NY		9	17,	70.8	·		• •
Z		ω.	9	1.49	92.	. y .	9 9
		4	-	5.70	01.	. 53	4.
×		œ	,76	7.07	ო	.03	4.2
		6	. 50	0.02	27.	. 501	4.7
٠ :	46,733	6.6	2	-	23.	. 78	8.4
	4	0	7.0	-	4	0	7.4
•	01,0	0 0				9 5	. a
Z	6,40		֡֡֓֞֝֓֓֓֓֟֝֓֓֓֓֟֝֓֓֓֟֓֓֓֓֓֓֟֓֓֓֓֓֓֓֟֓֓֓֟֓֓	9 0		700	
Bergen-Passaic, NJ	1,24	4.	, 1,	2.0	+ (9 0) (
Z	4,06	. 2	, 15	ກ ·		. 29	ء ر د
S. N.	1,00		, 07	ა დ	2	. 23	9:0
-Ocean, NJ	4.64	3	, 57	9.5	ω.	90	8.7
	1,51	99.40	6,663	31.66	88.5-	2.798	16.65+
	8.49	∹	. 29	3.8	S.	. 27	5.7
LN.	16,382		57	5.4	4	. 93	6.5
sylvania	18	7 .	,64	4.5	5	•	15.24+
PA	94,66	0.	œ	1.6	91.	06.	က က ၊
_	69	ი.	89	3.4	4	. 38	9.7
unty, PA	99	σ.	4	8.1	4	. 16	5.2
	24	0	86	7.94	93.	. 58	4.7
P. P.	92	σ.	, 94	6.75	22.	. 18	4 .3
PA	26	σ.	. 59	9.79	01.	80.	ж. Э
PA	9	o,	. 14	3.73	ک	. 42	3.4
Philadelphia PA-NJ	69.05	ω,	9,51	4.53	7.9	.04	3.5
PA	49	0.6	49	5.76	-	. 28	7.6
	48.47	8.6	1.34	7.60	7	. 59	2.5
A C	88	6	10	3.73	90	. 40	ა. ფ
	19,009	26.66		37.02+	79.4	2.941	8.0
9.0	20	0	5	5.15	12.	. 92	5.9
4 DA	20	. 0	4	8	81.	.06	2.6
	54	0	8	6.3	o	0	C.

Table 3. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD enrolime	enroliment	Discharg	arges	30-day post-admi	ission deaths	
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000
North Central	6,901,975	96.39	211,937	30.70	104.0+	3.173+	15.44+
East North Central	4,745,430	97.76	147,991	31.24+	102.1+	3.158+	16.49+
0110	1,263,869	0.00 0.00 0.00	41,034	32.58+	104.5+	3.326+	16.37+
Canton, OH	51,895	0.	49	6.6	CO C	.45	6.14
- 6	159,407	٥. ٢	, o,	2 F	0.66	. 40	7.90
Coleveland, UM Colembus, OM	121,377	. 7	18	1.6	80	.37	8
Dayton, OH	103,547	9.9	900	9.6	90	41.	5.75
Hamilton, OH	26,009	တ. ၀	88 72	4 6	13	. 25	3.4
TO RELATION OF	27,340	. 00	40	6.7	0	. 20	7.31
)	15,230		45	9.6	-	. 55	7.4
Steubenville, OH-WV	21,934	8.5	66	5.5	8	. 73	ა. გ. ი
Toledo, OH	70,660	6.6	9 1	4 4 0 4	DO RU	- 6	7.1
Youngstown, UH	8 TO '80	n	2	-)		
Indiana	623,062	ω.	~	0.	106.9+	3.188	15.75+
-	17,198	ο. Θ.	o (5.04	20 C	. s	י ת הית
Z Z	7, U.S.	> 0 0 0 0 0	107	29.27		. 62	5.7
DESCRIPTO TRIKE	34.434	. 7	0.0	4.6	32.	90	4.1
 2	37,565	7.7	86	5.0	99.9	464	7.1
	61,160	7.0	01	9.61	66	. 844	8.57
-	118,407	ლ. დ. ძ	6 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	5 1 1	. 6	. 0	+ rc
Kokomo, IN	10,842		ש מ	1 70	76.	000	4
Natayette, 18	13,220	0	1	7.2	20.	. 18	7.0
	33,170	6.6	3	5.20	5	. 56	5.2
Terre Haute, IN	19,585	8.6	5	g. 9	13.	44	6.2
	1.265.011	5.9	-	4.0	0	.04	6.5
Aurora-Elgin, IL	30,	8.6	85	7.5	97.	.66	7.26
	à	σ.	9	ອຸດ	14.	42.0	9 6
Champaign, IL	13,	9. c	3 2 1 3	0 0 0	0 0	7.0	9
Chicago, IL	u a	, a	44	7.73	17.	29	5.35
Joliet II	, a	7.1	- 00	1.6	03.	. 26	8.1
Karkakee, IL	2	9.9	38	2.1	84.	. 67	4.90
Lake County, IL	6	96.52	1,030	28.61	87.0	2.418	10.49
Peoria, IL	ກົດ	n 0	7.	- w	22.	27	6.1
Springfield, IL	24,799		4	1.95	13.	. 45	4.9
See notes at end of table.							

Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees Table 3. Ischemic heart disease: and total death rate for the aged P Statcs, 1986

42	00 deaths 0 per 1,000	+ 17.56+ 16.31 16.45 + 19.13+ 17.68+ 12.66-	C 4 8 7 C 2 9 0	0 8 7 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	13.38- 12.18- 12.18- 12.61- 12.61- 12.61- 12.61- 12.61- 12.61- 12.61- 13.61- 14.61- 15.61- 16.61- 17	112.55 112.55 113.55 11
mission de	Per 1,000 non-HMD enrollee	8 8 9 9 7 7 8 8 8 9 9 7 7 8 8 9 9 9 7 7 8 8 9 9 9 7 7 8 8 9 9 9 7 8 8 9 9 9 9	.02	87.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.0000 80.000 80.000 80.000 80.000 80.000 80.000 80.000 80.00000 80.0000 80.0000 80.0000 80.0000 80.0000 80.0000 80.00000 80.0000 80.0000 80.0000 80.0000 80.0000 80.0000 80.00000 80.0000 80.0000 80.0000 80.0000 80.0000 80.0000 80.00000 80.0000 80.0000 80.0000 80.0000 80.0000 80.0000 80.00000 80.0000 80.0000 80.0000 80.0000 80.0000 80.0000 80.00000 80.0000 80.0000 80.0000 80.0000 80.0000 80.0000 80.00000 80.0000 80.0000 80.0000 80.0000 80.0000 80.0000 80.00000 80.0000 80.0000 80.0000 80.0000 80.0000 80.0000 80.00000 80.0000 80.0000 80.0000 80.0000 80.0000 80.0000 80.00000 80.0000 80.0000 80.0000 80.0000 80.0000 80.00000 80.00000 80.00000 80.00000 80.00000 80.00000 80.00000 80.00000 80.00000 80.00000 80.00000 80.00000 80.00000000 80.0000000000	3.206. 3.209. 2.8648. 3.3648.	22.02.02.03.03.03.03.03.03.03.03.03.03.03.03.03.
30-day post-ad	Per 1,000 discharges	1057.2 1057.2 1057.9 133.0 130.4 1.90.4		105.0 115.0 115.0 123.3 123.3 128.7 128.7 108.1 104.1	108.1+ 118.5+ 139.6+ 115.8+ 94.9	11000 11000 111000 10000 10000
harges	Per 1,000 non-HMD enrollees	33.61 26.88 33.89 35.87 35.42 36.42 36.45 36.02	8.72 8.10 10	27.52- 31.07- 23.41- 23.41- 25.10- 22.12- 22.13- 22.20- 22.20-	29.53- 27.55- 27.81 24.66- 30.63	28.14. 26.106 26.28- 19.99-
Disc	Number	32,967 475 570 15,803 1,559 1,582 1,596	2740	16,899 7,899 7,899 8,891 7,859 1,859	63,946 10,974 3,460 3,227 375	11,619 1,164 1,164 301 125 441
enrollment	As percent of all enrollees	99999999999999999999999999999999999999	2000	00000000000000000000000000000000000000	93.50 77.30 76.74 994.45	00000000 000000 000000 000000 040000
Non-HMO	Number	982,444 17,760 16,831 21,618 448,084 64,091 17,046		611,044 34,483 16,955 19,185 11,8291 11,8291 11,8291 166,813 20,776 166,813 14,461	2,156,545 397,258 29,977 141,769 9,393 12,248	404,057 19,323 44,646 40,067 11,460 15,951
	Area of residence	BOTE - EB	alamazoo ansing, uskegon, aginaw,	Wisconsin Eau Claire, WI Green Bay, WI Janesvile, WI LaCrosse, WI Madison, WI Milwaukee, WI Racine, WI Sheboygan, WI	West North Central Minnesota Duluth, MN-WI Minneapolis, MN-WI Rochester, MN St. Cloud, MN	Iowa Cedar Rapids, IA Davenport, IA-IL Des Moines, IA Dubuque, IA Iowa City, IA Sioux City, IA-NE

Table 3. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMO enroil	enroilment	Disch	scharges	30-day post-adm	mission deaths	+
		As percent of all		Per 1,000	er 1,00	Per 1,000 non-HMO	deaths per 1,000
Area of residence	Number	0	Number	2	discharges	70 -	erson
	655,875	1.8	~	-	ω,	.21	5.0
OM REGENTO	8,560	9.6	18	.5	5.	.07	66.6
	19.275	9.9	4	. 2	0	.05	4.68
Kansas City, MO-KS	154,919	95.72	4,523	29.29	86.7-	2.532-	13.04-
St. Joseph. MO	13,630	9.9	38	٠.	6	. 43	9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
St. Louis, MD-IL	283,167	7.4	8	4	00	. 05	7.2
Springfield, MO	27,676	6.6	83	Ö	90	ي	2.21
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	95 433	0	-	2.4	6	. 93	2.0
MOTOR DANGE	00,100		24	3	4	00.	2.8
BISHORY NO	14 120		- 10	4	2	2.616	11.68-
Grand Forks, ND	5,687	99.95	182	31.77	89.3	02	1.6
			1		,		0
South Dakota	96,216	99.59	2,974	30.58	113.5	44.4	10.70
Rapid City, SD	7,152	9.8	4	4.2	25.	9.	7.7
Sioux Falls, SD	13,275	6.0		ພ ຜ	26.		4.
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	000	a	37	5. 4.	22.	.17	.01
	20, 910	, α	- 00	8.26	32.	.49	9.72-
Charles MF-TA	57,609	96.36	1,511	26.34-	119.8	3.178	. 5
						-	,
Kansas	307,796	301	9,915	2.0	თი	2 5	۳. ۷
Lawrence, KS	4,965	7.7	121	4.44	ກ 4	01.	20.0
	18,983	97.20	1,318	28.86	102.1	2.919	12.40-
-) ,					
South	8,980,101	97.94	295,316	32.88+	96.9-	3.192+	13.11-
South Atlantic	4,668,855	96.31	150,915	32.37+	93.7-	3.039	13.43-
		•	Č	0	~	1 4	53
Delaware Wilmington, DE-NJ-MD	58,114	# LC 20 20 20 20 20 20 20 20 20 20 20 20 20	1,967	33.99+	101.6	3.500	12.61-
	303 364	4	C	F 27	5.7	0.1	1.46
Maryland Dalt:more	244 878	h 0	9,00	. o		. 18	1.0
Cumberland, MD-WV	17,051	99.95		17	81.6	3.932	16.89
	14,522	6.6	9	1.9	ص	. 83	գ. ը.
District of Col.	66,196	99.75	1,294	19.72-	66.6-	1.300-2.108-	8.40-
See notes at end of table.							

Table 3. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

Area of residence Virginia Charlottesville, VA Lynchburg, VA Norfolk, VA Richmond, VA Roanoke, VA Roanoke, VA Huntington, WV-CH Parkersburg, WV-CH North Carolina Asheville, NC Charlotte, NC	8128 58110503 4 80128 58110503 4	As percent of all all all all all all all all all al	Number 16,527 2,779 2,585 1,585	Per 1,000 non-HMD enrollees 29.32- 29.26	Per	Per 1,000 non-HMD	deaths
Virginia Auriottesville, VA Janville, VA Orfolk, VA Orfolk, VA Oanoke, VA Nest Virginia West Virginia West Virginia WV-KY-OH Janville, NC North Carolina Sheville, NC Mariotte, NC Ariotte, NC Ariotte	8000000 5000	ଉପର ପ୍ରତ୍ତ ପ୍ରତ୍ତ ପ୍ରତ୍ତ	6, 35 9, 35 2, 74 2, 74 2, 75 7, 75 7, 75 8, 3	9.32	scharge	101	perso
wariottesville, VA 123, yachburg, VA 15, yachburg, VA 162, vA 162, vA 163, vA 162, vA 163, vA 164, vA	80 H 0 0 0 H 0 0 H		22, 442 2, 74 2, 58 4, 58 19, 83	9.26	7	. 85	3.0
ynchburg, VA ichburg, VA ichmond, WV-KY-DH ichmond, WV-KY-DH ichmond, WV-KY-DH ichmond, WV-DH ichmond, WV-DH ichmond, WC ichmond, NC ichmo	8010 50013	0 0 0 0 0 0 0 0 0 0 0	24 4 4 5 8 5 7 5 8 3 5 8 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5		102.9	3.071	12.14
varchburg, VA ichmond, WV ichmond, WV-KY-DH ichmoton, WV-CH ing, WV-DH ing, WV-DH ing, WV-DH ing, WV-DH ing, WV-DH ing, WV-DH ing, WC-DH ing, WC-D	8012 5001	ର ବା ବା ବା ର ବା ବା ବା	583	6.3	29.	. 42	4.7
west virginia West virginia West virginia With ington, WV-NH Beling, WV-DH Worth Carolina Sheville, NC Arlington, NC Latington, NC L	000 5100	ତ ତ ତ ତ ତ	. 58 . 58 . 75 . 83	3.58	05.	. 43	3.5
West Virginia 244, 30, oanoke, VA Marleston, WV MV-KY-DH 19, arkersburg, WV-DH 19, North Carolina 689, North NC 22, urlington, NC 24, narlotte, NC 113, averteville, NC 113, aver	00 12 50		758	7.3	07.	. 91	4.6
West Virginia 244, Marleston, WV-KY-OH 19, MV-KH-OH 19, WV-OH 19, WV-OH 19, Worth Carolina 689, Sheville, NC 24, Urlington, NC 109, Marletteville, NC 109, Marle	80 10 10	 	75, 75, 75, 75, 75, 75, 75, 75, 75, 75,	0.43	80.	.39	2.24
West Virginia 244, harleston, WV WV AV BY	& 0 ± 0s		83.	4.6	2.5	.84	2.7
West Virginia 244, narleston, WV arkersburg, WV-DH 19, neeling, WV-DH 22, North Carolina 689, sheville, NC 24, urlington, NC 109, averteville, NC 109, averteville, NC 109, averteville, NC 109, averteville, NC 109, north caroling NC 109, averteville, NC 109, north caroling NC	യെ		, 8, 6,			•	•
narieston, WV untington, WV-KY-OH arkersburg, WV-OH 19, heeling, WV-OH North Carolina Sheville, NC Urlington, NC 114, harlotte, NC Arcteville, NC 113, averteville, NC 113,	000	6.8	25	0.2	m i	3.759+	14.94
untington, WV-KY-DH 40, arkersburg, WV-DH 19, heeling, WV-DH 22, North Carolina 589, sheville, NC 24, urlington, NC 169, ayetteville, NC 109, ayetteville, NC 13, ayetteville, NC 109, norther, N	9	9.9	,	6.78	82.	.05	3.
neeling, WV-DH 19, North Carolina 589, Sheville, NC 24, Urlington, NC 109, ayetteville, NC 109, ayetteville, NC 113, N	8	9.9	45	5.62	26.	. 36	5.2
North Carolina 689, Sheville, NC 24, Ington, NC 144, Ington, NC 109, Arctice, NC 109, Arctice, NC 109, NC 113,	•	6.6	99	3.45	16.	. 73	3. 8
North Carolina 689, sheville, NC 24, urlington, NC 14, narlotte, NC 109, averteville, NC 109, no choice, NC	-	82.51	00	45.92+	112.2	. 95	8.5
North Carolina 689, sheville, NC 24, urlington, NC 114, harlotte, NC 109, averteville, NC 113,							
urlington, NC 14, Narlington, NC 109, Narliotte, NC 109, Nc 10	B	9.9	œ	9.49	. 60	. 224	4.5
urlington, MC 14, Narlotte, NC 109, ayetteville, NC 139, 139, 150, 150, 150, 150, 150, 150, 150, 150	9	9.9	46	9.09	11.	. 14	3.1
harlotte, NC 109,	0	6.6	*	4.25	12.	. 59	9.9
ayetteville. NC 13,	CC)	9.7	O	7.63	21.	. 41	5.1
	00	6	32	24.1	17.	.82	6.7
	8	9.9	51	28.89	07.	.04	5.2
ickory, NC 23.	6	9.9	64	7.8	. 90	.05	5.9
SCRSONVILLE, NC	ന	9.8	4	æ		1.490-	11.96
NC 56.	œ	9.8	9	4.4	05.	. 65	1.8
ilmington, NC 12,	534	76.66		29.50	74	. 19	2.10
	- (•		•		5	7
South Car	220	4.00	9,527	29.19-	111.3+	3.213	14.04
nderson, SC 16,	9	9.7	ומ	7.30		70.) u
rleston, SC 34,	4	ο. Ο ·	- 1	7 . 7	- - - - - - - - - -	. 000	
olumbia, SC 35,	9	6	σ,	2.71	. 70	77.	. 4
lorence, SC 11,	9	9.9	41	8.05	40.	.432	9 .
reenville, SC 65,	S	0.8	ന	8.12	2	. 19	4 · Z
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0 100 0 100	4 0	. 0	000	5 13	0	37	1.8
70.0	202	20.00	424	30.50	110.7	3.550	13.04
100	40				0	6	2.4
	90	, o	10	7 27			3.52
ugusta, ch-oc	9 4	n 0	ן מ	 	. 4		0.9
Olumbus, GA-AL 22,	t c	n c	- 6			200	00
.23,	40	n c	o a			1 2	7
avannan, GA	9		0		·	•	

Table 3. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

Tota	deaths per 1,000 persons	4.5.	4.14	44.4	2.3	4.00 6.00 6.00	4.4.8	10.74- 8.27- 13.13- 12.81-	13.43-	14.73 13.70 13.43- 10.42-	14.04- 13.79- 14.38 10.17- 12.57- 13.45- 13.45-
ission deaths	Per 1,000 non-HMD enrollees	8.7.	. –. ∞.	5.57	66.6	4 6	600	2.369- 2.094- 2.588- 2.704	3.476+	3.622+ 2.653 2.866 1.971	3.526 2.226 2.226 3.6841 3.727 2.638 2.638
30-day post-admiss;	Per 1,000 discharges	430			8.78	0.0		91 77	97.1	101 998 605	001 1001 1000 1000 1000 1000 1000 1000
charges	Per 1,000 non-HMD enrollees	8.69	4.8	3.6 7.9 8.1	1.61 8.31 7.43	9.5	P 8 4		35.80+	35.62+ 25.60- 30.27 32.10	36.07 31.86 25.89 25.89 32.23 34.28 34.28 31.39
Disch	Number	36,	1,135	, 4 7 4 7	2,546 1,583 1,752	64	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2,290 2,290 4,2414 6,355	61,787	15,061 789 3,237 329	19,830 1,587 325 257 1,771 2,582 2,910
Non-HMD enrollment	As percent of all enrollees	0.00	y 110 20.0	9.00	9.5	2.0		99.99 97.88 87.05 85.22	99.80	99.70 98.87 99.20 99.96	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Non-HMD	Number	1,705,534	62,616 181,839 61,428	41,198 10,169 16.758	80,890 80,890 805,495	168,502 23,433	11,817	77,895 17,895 17,414 323,951 139,729	1,726,272	422,657 31,008 107,485 10,319	550,327 50,061 12,541 10,064 55,068 70,970 98,836
	Area of residence	da on, FL	Daytona Beach, FL Fort Lauderdale, FL Fort Myers, FL	Fort Pierce, FL FT. Walton Beach, FL Gainesville, Fl	Jacksonville, FL Lakeland, FL Meiboire, FL	Miami-Hialeah, FL	Orlando, FL Panama City, FL	rensacola, ru Sarasota, FL Tallahassee, FL Tampa, FL West Palm Beach, FL	East South Central	Kentucky Lexington, KY Louisville, KY Dwensboro, KY	Tennessee Chattanooga, TN-GA Clarksville, TN-KY Jackson, TN Johnson City, TN-VA Knoxville, TN Memphis, TN-AR-MS

Table 3. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

+	deaths per 1,000	7.64.8	14.10 15.72 11.83- 11.43- 11.43-	11.86- 13.78 10.25- 14.05	2.3 0.5 7.0	113. 12. 111. 12. 12. 13. 14. 14. 16. 16. 16. 17. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	14.63 16.13 14.18 13.01-
ission deaths	Per 1,000 non-HMO enrollees	.27 .93 .22	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3,448+ 2,514 3,465	. 928 . 307 . 059	3.345+ 2.852 3.390 4.746+ 2.297 3.016 3.139	3.557+ 3.281 3.012 3.078 3.092
30-day post-admi	Per 1,000 discharges	9 2 2 2 6	106.7 108.3 100.3	100.8 94.0 109.5 97.4	9000 9000 1440 1900	101.6 102.4 114.3 120.4 82.4 105.0 130.6 116.5	103.1 140.9 95.5 100.6 103.8
arges	Per 1,000 non-HMD enrollees	2.88.0	45.13 26.20 26.20 29.13 29.13	34.32+ 40.69+ 22.99- 37.30	4.22	33.77+ 28.23 30.02 41.17+ 27.97 31.56 31.33	34.17+ 23.52- 32.02 30.39 29.23
Disch	жетрег	18/0	1,341 8647 8641 995	9,983 737 810 319	2,11 2,11 1,61 1,61 26	14,048 1,184 554 408 3,874 994	12,987 194 2689 2,689 2,071
enroliment	As percent of all enrollees	୍ ବର୍ଷ ବର୍ଷ ବର୍ଷ ବର୍ଷ	1	99.98 99.97 99.98 99.88		99.98 99.98 100.00 99.99 99.98 99.98	999 999 999 997 98 135
Non-HMD e	Number	463,131 13,124 108,546	16,687 14,295 17,137 50,513 29,832	290 18 35 8	321,73 11,80 21,41 50,96 11,01	415,968 13,819 39,583 13,501 14,620 118,708 36,822	378,716 8,215 8,221 8,221 88,646 71,032
	Area of residence	Alabama Anniston, AL Birmingham, AL	Florence, AL Gadsden, AL Huntsviile, AL Mobile, AL Montgomery, AL Tuscaloosa, AL	Mississippi Biloxi-Gulfport, MS Jackson, MS Pascagoula, MS	Arkansas Fayetteville, AR Fort Smith, AR-OK Little Rock, AR Pine Bluff, AR	Louisiana Alexandria, LA Baton Rouge, LA Houma-Thibodaux, LA Lafayette, LA Lake Charles, LA Monroe, LA New Orleans, LA Shreveport, LA	Oklahoma Enid, Ok Lawton, Ok Oklahoma City, Ok Tulsa, Ok

notes at end of table

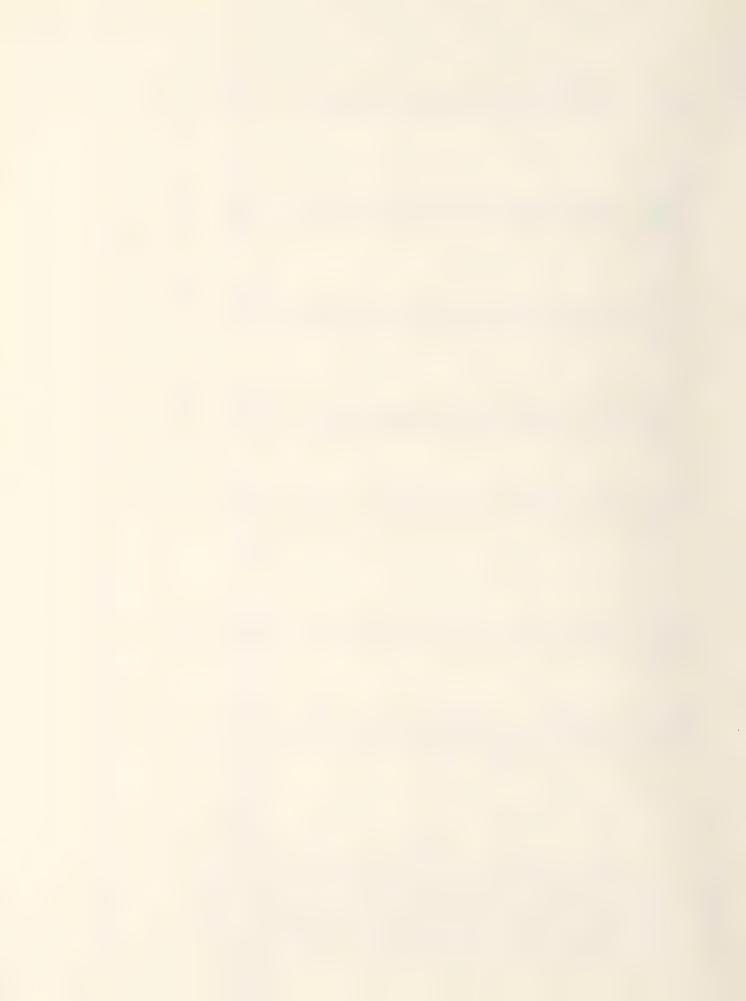
Table 3. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 Total deaths per 1,000 11.09-9.29-12.12 11.67-13.61 11.91-10.47-11.12-11.41-12.88-30-day post-admission deaths Per 1,000 non-HMD enrollees 33.1272 2.513-1.757-2.468-2.489 -2.796 2.181 3.315 3.188 2.289 2.344 Per 1,000 discharges 104.8 117.8 1042.8 1042.8 105.6 1118.3 1105.6 1106.3 1107.1 94.0-102.8 109.8 127.0 85.9 85.9 98.9 91.2 Per 1,000 non-HMO enrollees 229.55-40-225.381.22-225.381.22-225.381.22-225.381.22-225.381.22-27.59-20.88-26.19-27.38-19.52-25.97 25.18-28.49 24.41 22.77-Discharges 386 131 689 237 237 43.462 30,419 umber 119,400 2 ຕ As percent of all $\begin{array}{c} \mathbf{0} \\ \mathbf{$ 93.08 94.36 99.90 99.88 99.91 99.77 99.91 99.91 Non-HMD enrollment 1,468 193,100 193,100 193,100 1003 147,578 197,923 197,925 197,927 197,992 197,992 107,989 111,213 107,989 14,532 18,332 18,332 18,332 18,332 18,332 18,332 18,332 18,332 18,332 18,452 97,248 12,097 9,076 109,822 42,408 5,379 6,886 Number 1,200,638 4,539,951 Corpus Christi, TX
Dallas, TX
El Paso, TX
Fort Worth, TX
Galveston, TX
Houston, TX Ϋ́ Lubbock, TX
Lubbock, TX
Mid-land, TX
Mid-land, TX
San Angelo, TX
San Angelo, TX
San Angelo, TX
Sherman-Denison, T Wichita Falls, TX Abitene, TX Austin, TX Beaumont, TX Brazoria, TX Brownsville, TX Area of residence Billings, MT Great Falls, MT Boise City, ID Victoria, TX Waco, TX Cheyenne, WY Laredo, TX Wyoming Casper, WY Tyler, TX Montana Mountain Idaho West

Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees death rate for the aged population, by census region and division, State, and metropolitan statistical area: United Table and to States

Table 3. Ischemic heart disease: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 per 1,000 13.60-13.27 13.08-12.88-11.90-14.58 13.65 11.72-12.66-11.87-12.75 0.59-1.46-11.16-3.72 3.67 11.54-9.02-8.94persons 3.21 deaths Total 30-day post-admission deaths Per 1,000 non-HMD enrollees 1.631-1.851-2.560 2.563 2.563 2.563 2.563 2.563 2.568 2.471 2.911 discharges Per 1,000 146.5 87.1 116.4 Per 1,000 enrollees 29.30 32.45+ 20.75-27.45-27.72-32.52 32.18 27.38-28.49-32.93 18.03-18.53-34-23non-HMO -00 25.08-24.87-25.67-23.19-21.88-21.64 -32.81 Discharges 68,155 4,614 1,475 1,611 526 016 5,123 3,408 2,586 586 828 637 1,043 1,261 1,073 956 422 346 1,482 881 .109 1,201 Number As percent enrollees 983.71 989.39 999.09 999.09 999.09 999.09 999.09 999.09 999.09 999.09 999.09 999.09 999.09 999.09 99.78 83.64 of all Non-HMO enroliment 24, 969 58, 102 57, 102 13, 465 13, 465 149, 488 17, 786 120, 273 29, 131 29, 131 205, 402 105, 258 38, 021 80,233 24,640 40,855 16,348 5,625 Number 28.1 California Anaheim-Santa Ana,CA CA CA CA Redding, CA Riverside, CA Sacremento, CA San Dieso, CA San Dieso, CA San Jose, CA San Jose, CA Area of residence Bakersfield, CA Los Angeles, CA Santa Cruz, CA Santa Rosa, CA Stockton, CA Vallejo, CA Visalia, CA Yuba City, CA Modesto, CA Oakland, CA Anchorage, Fresno, CA Merced, CA Chico, CA Alaska Hawai i

U.S. Bureau of the Census (population). sex. A (+) or (-) indicates health maintenance organizations (HMDs) are included in Medicare data. All rates are indirectly standardized for age and the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of not members of NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were

Honolulu, HI



Acute myocardial infarction

the general aged population was 6.95 deaths 24 percent. The death rate for AMI among Medicare population aged 65 years or over. of all hospitalizations for heart disease and infarction (AMI) accounted for 16 percent discharges for AMI among aged Medicare discharges per 1,000 (Table 1). The 30-day disease during 1986. There were 280,579 post-admission mortality rate was 242.0 for 34 percent of all deaths from heart deaths per 1,000 discharges, or about Heart disease is a leading cause of enrollees in 1986, for a rate of 10.50 In this population, acute myocardial morbidity and mortality among the per 1,000 persons.

there is evidence that a greater proportion of principal diagnosis of AMI, even if that stay Medicare hospital stays, a stay for a cardiac AMI as the principal diagnosis. Thus, rates Important coding issues should be borne condition within 8 weeks of the occurrence coronary heart disease deaths occur out of within 8 weeks of an AMI will likely have persons (Sempos et al., 1988). The coding in mind when examining AMI statistics of an AMI is liable to be coded with a is not for a new AMI. For example, an hospitalizations for new AMIs. Second, admission for a cardiac catheterization nospital for black persons than white overall and by race. First, in coding of hospitalization for AMI do not necessarily reflect the incidence of

NOTE: Acute myocardial infarction is ICD-9-CM

death rates must be interpreted with caution. of cause of death (AMI versus other causes) outside a hospital than for those that occur in a hospital. Thus, rates of hospitalization may be less accurate for deaths that occur for AMI and differences by race in AMI

Age and sex patterns

percent higher than the rates for women this men in the age group 65-74 years but higher three age categories. Death rates among the considerably higher rate than women in all aged population were also much higher for men than women, but the difference by sex 2.84); death rates for men aged 85 years or discharges were higher for women than for over were 34 percent higher than those for Discharge rates for AMI increased with 65-74 years to the group 85 years or over. age, rising 51 percent from the age group age (5.90 deaths per 1,000 persons versus decreased with age. Death rates for men women (20.52 deaths per 1,000 persons 65-74 years of age were more than 100 Men were hospitalized for AMI at a for men in the two older age groups. post-admission mortality per 1,000 versus 15.31). Rates of 30-day

Patterns by race

were higher for white than black men in all Discharge rates for AMI were higher for white persons than for black persons in all three age groups. Population death rates three age groups. For women, the death

mortality rates were lower for black persons lower for white women in the age group persons in the two older age groups but 65-74 years. The 30-day post-admission than for white persons in every age-sex ates were higher for white than black group.

Variations by geographic area

and mortality by geographic area. The tables Tables 2 and 3 contain data on utilization in Table 2, whereas data at the metropolitan and rural areas within each State are shown Table 3. Figures 1-3 were derived from the division, and State. Data on metropolitan statistical area (MSA) level are shown in are broken out by U.S. census region, data in these tables.

Discharge rates

New England and Middle Atlantic Divisions (14.22 discharges per 1,000). The District of Columbia's low rate may result in part from had the highest median discharge rates, and enrollees) and Rhode Island had the highest In 1986, discharge rates for AMI tended incomplete reporting of discharges and in part from its large black population. The Northeast. The District of Columbia and the Mountain and Pacific had the lowest highest rates were generally found in the to be lowest in the West (Figure 1). The Hawaii had the lowest discharge rates (6.38 and 6.43 discharges per 1,000

Population death rates

In 1986, the States with the lowest death rates from AMI tended to be in the West and the States with the highest rates were generally in the East (Figure 3). The death rate from AMI across States ranged from a low of 3.77 per 1,000 enrollees in the District of Columbia to a high of 9.04 per 1,000 enrollees in Kentucky (Table 2).

Correlations between rates

There was a positive correlation of 0.51 between the discharge rates per 1,000 enrollees and the death rates per 1,000 persons among MSAs and rural areas, indicating a direct relationship between mortality from AMI and hospitalizations for AMI in an area. There was no significant correlation between the discharge rate per 1,000 enrollees and the 30-day post-admission death rate per 1,000 discharges for AMI.

Urban-rural patterns

In the Nation as a whole, the discharge rate for AMI was higher for rural than urban Medicare enrollees (11.75 versus 10.03 discharges per 1,000 enrollees). It was also higher for rural residents in all four census regions. The 30-day post-admission death rate was similar for urban and rural residents in the Nation as a whole (239.3 and 248.1 deaths per 1,000 discharges) and in each census region. The AMI death rate for the aged population was higher for rural than urban residents both nationally (7.74 versus 6.69 deaths per 1,000 persons) and in all four census regions.

Reference

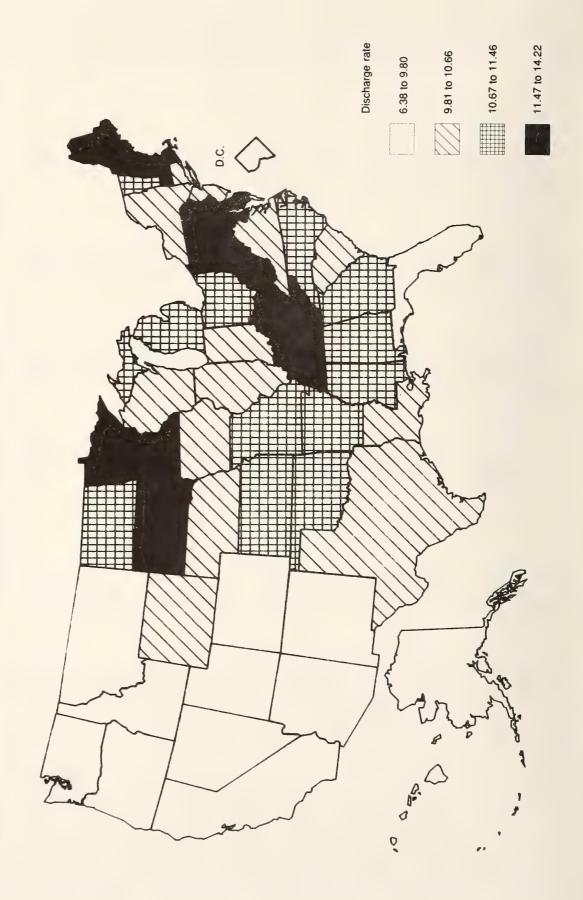
Sempos, C., Cooper, R., Kovar, M.G., and McMillen, M.: Divergence of recent trends in coronary mortality by the four major race-sex groups in the United States. *American Journal of Public Health* 78(11):1422–1427, Nov. 1988.

Table 1. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by age, sex, and race: United States, 1986

Number As percent Number As percent Number Nu	e, sex, and race 11 persons (1) 65-74 years 75-84 years or over 75-75-84 years 75-84 years 85 years or over 75-96 85 years or over 75-96 85 years or over 16.0		ercen ercen 6 .33 6 .33 6 .33 6 .33 7 .22 7 .22 7 .51 6 .65	Number 80,579 42,412 04,652 33,515 84,144 48,489	Per 1,00 non-HMD enroilee	Per 1,000 discharges	Per 1,00 non-HMO enrollee	Total deaths er 1,0
Name	9e, sex, and race All persons (1) C5-74 years 85 years or over Men Nomen Women 65-74 years 75-84 years 85 years or over 75-84 years 85 years or over 75-84 years 85 years or over	Number 15,984 15,994 15,991 15,991 17,933 17,933 180 180 180 180 180 180 180 180	DF a Lee a	Numbe 80,57 42,61 04,65 33,51 43,90 43,90	non-HMD nroilee 10.50	Per 1,00 ischarge	non-HMO nrollee	deaths er 1,0 person
Performance Number Colored Number Number Colored Number	Men	Nu mber 698,924 20,594 15,883 15,883 55,991 82,180 82,180 149 149	a-1-e- 0-1-e- 0-1-e- 6.33 6.33 6.96 7.22 7.22 7.16 7.51 8.74	Numbe 80,57 42,41 04,65 33,51 84,14 48,48	nrollee 10.50	ischarge	nrollee 2.54	person
	Persons (1) 26 65-74 years 16 85 years or over 16 65-74 years 16 75-84 years 16 Women 16 65-74 years 16 65-74 years 16 65-74 years 16 65-74 years 16	15, 924 15, 924 15, 934 15, 983 15, 991 182, 344 180 180, 180 180, 180 180, 180 180, 180 180, 180	7 8 8 9 9 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	80,57 42,41 04,65 33,51 43,90 84,14 48,48	0.5		2	
Color Colo	Men 165-74 years 1665-74 years or over 165-74 years or over 175-84 years or over 165-74 years 16	15, 594 15, 994 16, 994 17, 994 18, 180 18, 180 19,	66.66 6.66 6.66 6.66 6.66 6.66	42,41 042,65 33,51 43,90 84,14 48,48		42.	•	σ.
The state of the	Men 10 65-74 years or over 10 65-74 years 8 85 years or over 10 65-74 years 10 65-74 years 10 65-74 years 10 75-84 years 10 11 years 11 ye	15,883 50,447 550,991 86,445 82,180 87,933 77,933 703	66.66.1 6.66.61 6.66.61 6.66.61	04,65 33,51 43,90 84,14 48,48	8.8	85.	9.	Τ.
### ### ### ### ### ### ### ### ### ##	Men 65-74 years of over 16 75-84 years of over 16 85 years of over 65-74 years 16 85-74 years 16 85 years of over 16 16 16 16 16 16 16 16 16 16 16 16 16	15,883 56,991 12,366 12,366 72,366 77,933 70,149	8 .3	33,51 43,90 84,14 48,48	3.0	79.	9.	9.2
Market M	Men	56,991 12,366 82,180 82,180 67,933 703,081	66.6 6.6	43,90 84,14 48,48	3.3	64.	ω.	6.7
Monmen M	Men 65-74 years 85-84 years 85 years or over 75-84 years 75-84 years 85 years or over 1.	82,180 82,180 82,180 82,180 84,081 83,081	66 8 55 1 2090	84, 14 48, 48 11, 27	در بر	77	C	7
Polymera Service	Women 16. Women 16. Women 16. Women 16. Years or over 16. 74 years 5. 75-84 years or over 1. 16. Wite 23,	12,366 82,180 47,933 98,081 33,708	66 8767 769	8,48) =	75.	9	0
Notice Color Col	75-84 years 2, 85 years or over 16, 65-74 years 9, 75-84 years 5, 85 years or over 1,	12,366 82,180 47,933 06,149 08,081	6.6 45.61 20	1,27				0
### ### ### ### ### ### ### ### ### ##	85 years or over 16, 65-74 years 75-84 years 5, 85 years or over 1, hite 23,	82,160 47,933 06,149 08,081	7. 7. 2 6. 6. 6 7. 2 7. 2 7. 3 8. 4	1,27	9 . 0	0 I	. (4 .
Women B5 years or over B5 years or	Women 65-74 years 75-84 years 85 years or over 1, hite	47,933 06,149 08,081	7.1 6.6 7.5 8.7 8.7		و. د	9.	٧.	n
Women For years For	Women 65-74 years 75-84 years 85 years or over 1, hite 23,	26, 149 06, 149 08, 081	6.6 6.6 6.6 6.6	73 36	£.	5.7	-	7
65-74 years 5 1006 1049 97.51 50.70 7.20 85-74 years 9 1006 1049 97.51 50.70 10.39 276.1. 3.00 85-74 years 1 1833 703 98.74 22.245 10.39 276.1. 3.00 75-84 years 1 2.00 96.23 22.245 110.83 244.9 2.65 75-84 years 7 134.499 96.23 10.99 2.23 10.69 2.65 75-84 years 7 134.499 96.28 10.09 12.34 10.69 10.69 75-84 years 7 10.00 10.00 14.00 10.00	65-74 years 9, 75-84 years 5, 85 years or over 1, hite 23,	06,149 08,081 83,703	6.6 6.6 6.6	0000	, (. a
75-84 years or over 5,188,081 98 751 255,381 10,83 244.9 559.1 4.06 15.3 18.5 years or over 5,188,081 98 751 255,381 10,83 244.9 568.5 14.2 years 14,282,503 98 76 23 10,078 13.92 282.5 38 80 26 6 22 255,381 10,83 244.9 165 96.82 31,078 13.92 282.5 38 80.2 16.5 3 10.0 17.2 13.45 282.5 38 80.2 17.2 12.6 12.6 12.6 12.6 12.6 12.6 12.6 12	75-84 years 5, 85 years or over 1, hite 23,	33,703	6.6 6.6 6.2	97.9	n .		4 0	
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1.5 1.5	Rive 23,	4	6.2	55 2B	α	44	9	٦.
65-74 years 714,201,4094 96.23 16.201,201 96.23 17.201,503 96.26 31,078 13.92 282.6 31,078 13.92 367.6 31.73 37.6		0 0	7 . 0	200		. u	. 4	0
Real years 7,134,499 96.88 310.072 13.49 367.5 5.72 17.7 85 years 0 ver 7,134,499 96.88 310.072 13.49 367.5 5.72 17.7 85 years 0 ver 0,216,472 95.94 131.880 14.04 229.6 5.18 6.0 75 64 years 0,216,472 95.94 14.664 17.3 226.6 4.98 15.0 85-74 years 1,990,592 95.94 10.464 17.3 206.5 21.4 6.60 21.4 85-74 years 1,990,592 96.55 51.57 6.45 202.5 1.31 7.4 75-84 years 1,600,592 96.55 51.320 11.25 202.5 11.31 7.4 75-84 years 1,213.014 97.64 51.320 11.25 202.5 11.31 7.6 65-74 years 1,213.014 97.54 51.320 11.35 206.5 11.30 11.30 65-74 years 1,213.01	5-74 years 14,	90		67,07) •		. 0	. 4
Men 95.94 131.078 13.92 307.0 31.078 13.92 307.0 31.07 <t< td=""><td>5-84 years 7,</td><td>4 9</td><td>9.0</td><td>0.0</td><td>90</td><td>. 70</td><td></td><td></td></t<>	5-84 years 7,	4 9	9.0	0.0	90	. 70		
Men 9.391.016 95.94 131.880 14.04 229.8 3.23 8.9 75.94 years 6,216.472 95.83 76.664 12.33 286.4 4.98 12.66 6.00 55.93 98.93 10.464 17.42 379.0 6.00 50.0 55.93 98.93 4.475 10.464 17.42 379.0 6.60 2.14 6.60 2.18 6.60 2.14 2.27 2.14 </td <td>5 years or over 2,</td> <td>, 50</td> <td>8.2</td> <td>1,0</td> <td>χ. Σ</td> <td></td> <td>٠,</td> <td>7.</td>	5 years or over 2,	, 50	8.2	1,0	χ. Σ		٠,	7.
Momen Messars 6.216,472 95.83 76,664 12.33 176.5 2.18 6.0 75.84 years 14,183,050 95.94 44,152 17.38 260.9 2.18 6.0 75.84 years 14,183,050 97.07 123,501 8.70 260.9 2.27 2.8 75.84 years 7,990,592 96.55 51,567 6.45 202.5 1.31 7.4 75.84 years 1,991,943 97.86 15,014 7.53 206.5 1.15 7.8 75.84 years 1,991,304 97.49 6.673 8.89 237.6 2.03 1.2 7.8 85 years or over 792,788 97.49 6.673 8.41 1.97.7 1.66 6.6 1.2 2.03 1.2 <td< td=""><td>o</td><td>0</td><td>5</td><td>31.88</td><td>4.0</td><td>29.</td><td>.2</td><td>6.</td></td<>	o	0	5	31.88	4.0	29.	.2	6.
Women F5-84 years 2,573,969 95.94 44.752 17.36 286.4 4.98 12.6 Women 16.5 years 14,183,050 97.12 10,464 17.42 379.0 6.60 21.4 65-84 years 14,183,050 97.07 123.501 8.70 260.9 2.27 5.8 75-84 years 4,560,510 97.62 51.320 11.263 202.5 361.8 4.57 17.4 85 years 1,991,943 97.84 86.9 12.63 11.33 4.57 15.6 11.34 4.57 15.6 15.6 11.34 4.57 15.6 15.6 11.34 4.57 15.6	SK 74 vears	47	2	76.66	2.3	76.	Ξ.	6.0
Women 14,183 050 97.12 10,464 17.42 375.0 6.60 21.4 65-74 years 14,183 050 97.07 123,501 8.70 260.9 2.27 5.8 65-74 years 7.990,592 96.55 51,567 6.45 202.5 1.31 2.8 75-84 years 7.990,592 97.42 21,320 11.25 202.5 1.31 7.4 85-74 years 1,991,948 97.54 15,014 7.53 206.5 1.54 15.6 65-74 years 1,213,014 97.54 81.95 6.75 1.66.6 1.13 7.8 85 years or over 1,991,200 97.24 81.95 81.90 8.59 306.5 2.09 17.2 85 years or over 1,991,200 99.11 1,600 81.91 1.75 1.66.6 2.09 1.75 1.66.6 2.09 1.75 1.78 4.00 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78 1.78	0 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	9	5.9	4.75	7.3	86.	6.	2.6
Women 14,183,050 97.07 123,501 8.70 260.9 2.27 5.8 65-84 years 7,990,592 97.42 51,567 6.45 206.9 2.27 5.8 65-84 years 4,590,592 97.42 51,320 11.25 279.1 3.14 7.4 85 years or over 1,631,948 97.86 15,014 7.53 206.5 15.6 105-74 years 1,991,943 97.86 15,014 7.53 206.5 15.6 65-74 years 1,213,014 97.54 8,195 6.75 166.6 1.13 4.0 85 years or over 1295,500 99.11 1,680 8.59 306.5 2.63 12.2 75-84 years 519,305 97.28 4,027 7.75 1.26 4.9 75-84 years 519,305 97.28 4,027 7.75 1.26 2.09 75-84 years 519,305 97.28 4,027 7.75 1.26 4.9 75-84 years 56,08 </td <td></td> <td>4</td> <td>1</td> <td>46</td> <td>7 4</td> <td>5 /</td> <td>9</td> <td>1.4</td>		4	1	46	7 4	5 /	9	1.4
Women 14,183,050 97.07 123,501 8.70 260.9 2.27 5.8 65-74 years 7,990,592 96.55 51,367 6.45 202.5 1.31 2.8 75-84 years 4,560,510 97.07 12.63 12.63 361.8 4.57 1.56 65-74 years 1,091,948 97.64 8,195 6.75 206.5 1.56 1.56 1ack 1,219,1948 97.54 8,195 6.75 166.6 1.56 1.13 4.0 1.56 75-84 years 195,500 99.11 1,680 8.59 306.5 2.09 1.2 3 65-74 years 195,500 99.11 1,680 8.59 306.5 2.63 1.2 3 1.2 3 65-74 years 195,500 99.11 1,680 8.59 306.5 2.63 1.2 3 1.2 3 1.2 3 1.2 3 1.2 3 3 3 3 3 3 <td>o years or over</td> <td>0</td> <td>-</td> <td></td> <td></td> <td>,</td> <td></td> <td></td>	o years or over	0	-			,		
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1.25 4,560,510 97.42 51,320 11.25 279.1 3.14 7.58 85 98.69 20,614 12.63 361.8 4.57 15.68 15.68 15.014 7.53 206.5 1.56 1.13 4.0 4	5-74 VPATS 7	59	6.5	1.56	4.	02.	ن	œ
12 12 13 14 15 15 15 15 15 15 15	5-84 Vears	51	7.4	1,32	1.2	79.	Ξ.	7.4
lack 55-74 years 1,991,943 97.86 15,014 7.53 206.5 1.56 5.84 75-84 years 1,213.014 97.54 8,195 6.75 166.6 1.13 4.0 75-84 years 195,500 99.11 1,680 8.59 237.6 2.09 7.8 85 years or over 792,788 97.49 6,673 8.41 197.7 1.66 6.6 75-84 years 519,305 97.28 4,027 7.75 126.7 1.22 4.9 75-84 years 519,305 97.67 2,095 9.72 244.4 2.38 9.2 85 years or over 56,082 98.74 551 9.48 319.4 3.03 13.4 85 years or over 1,199,155 98.10 8,341 6.95 213.6 1.49 5.3 75-84 years 368,028 98.37 4,168 6.00 176.1 1.99 1.76 75-84 years 137,418 99.26 11,129 8.21 300.3	5 years or over 1.	94	8.6	0,61	2.6	61.	. 5	5.6
1,231,343 37.54 4.05 4		,	0	7	LC.	9	Ľ	æ
55-74 years 1,213,014 97.24 98.11 5,139 8.80 237.6 2.09 7.88 75-84 years or over 195,500 99.11 1,680 8.59 306.5 2.63 12.2	200 - 1	# v v	- 1	2 -				0
65-74 years or over 195,500 99.11 1,199,155 98.10 8.27 232.9 11.75 1.66 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.	5-74 years 1.2	3,01		7 6	- 0		: 0	
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65-74 years 792,788 97.49 6.673 8.41 197.7 1.66 6.6 75-84 years 519,305 97.28 4,027 7.75 156.7 1.22 4.9 75-84 years 215,401 97.67 2,095 9.72 244.4 2.38 9.2 85 years or over 58,082 98.74 8,341 6.95 213.6 1.49 5.3 65-74 years 693,709 97.74 4,168 6.00 176.1 1.06 3.33 75-84 years 368,028 98.37 3,044 8.27 232.9 1.93 7.0 85 years or over 137,418 99.26 1,129 8.21 300.3 2.47 11.77	5 years or over	5,50	٦. ٢	0			•	i i
65-74 years 519,305 97.28 4,027 7.75 156.7 1.22 4.9 75-84 years 215,401 97.67 2,095 9.72 244.4 2.38 9.2 85 years or over 58,082 98.10 8,341 6.95 176.1 1.49 5.3 75-84 years 693,709 97.74 4,168 6.00 176.1 1.06 3.3 75-84 years 368,028 98.37 3,044 8.27 232.9 1.93 7.0 85 years or over 137,418 99.26 11,129 8.21 300.3 2.47 11.7	7	- 6	7.4	.67	4	97.	9 .	9 .
84 years 215,401 97.67 2,095 9.72 244.4 2.38 9.2 years or over 58,082 98.74 551 9.48 319.4 2.38 9.2 74 years 693,709 97.74 4,168 6.00 176.1 1.06 3.33 84 years 368,028 98.37 3,044 8.27 232.9 1.93 7.0 years or over 137,418 99.26 1,129 8.21 300.3 2.47 11.7	65-74 Vears 5	. 0	7.2	.02	7.	56.		6.
years or over 58,082 98.74 551 9.48 319.4 3.03 13.4 74 years 1,199,155 98.10 8,341 6.95 213.6 1.49 5.3 74 years 693,709 97.74 4,168 6.00 176.1 1.06 3.3 84 years 369,028 98.37 3,044 8.27 232.9 1.93 7.0 years or over 137,418 99.26 1,129 8.21 300.3 2.47 11.7	The second	3 46	7.6	60	7	44	3	9.2
1,199,155 98.10 8,341 6.95 213.6 1.49 5.3 74 years 693,709 97.74 4,168 6.00 176.1 1.06 3.3 84 years 369,028 98.37 3,044 8.27 232.9 1.93 7.0 years or over 137,418 99.26 1,129 8.21 300.3 2.47 11.7	5 years or over	, w	8.7	55	4	19.	٥.	3.4
1,199,155 98.10 8,341 6.95 213.6 1.49 5.3 74 years 693,709 97.74 4,168 6.00 176.1 1.06 3.3 84 years 369,028 98.37 3,044 8.27 232.9 1.93 7.0 years or over 137,418 99.26 1,129 8.21 300.3 2.47 11.7								
5-74 years 693,709 97.74 4,168 6.00 176.1 1.00 3.3 5-84 years 368,028 98.37 3,044 8.27 232.9 1.93 7.0 5-84 years 137,418 99.26 1,129 8.21 300.3 2.47 11.7	1,1	, 15	8.1	, 34	6.	13.	₹.	w.
5-84 years 368,028 98.37 3,044 8.27 232.9 1.93 (.0 5 years or over 137,418 99.26 1,129 8.21 300.3 2.47 11.7	5-74 years 6	, 70	7.7	, 16	0	. 97	9	. c
5 years or over 137,418 99.26 1,129 8.21 300.3 2.47 11.7	5-84 years 3	,02	8.3	,04	. 2	32.	9.	0 .
	5 years or over 1	, 41	9.2	, 12		00	*	1.

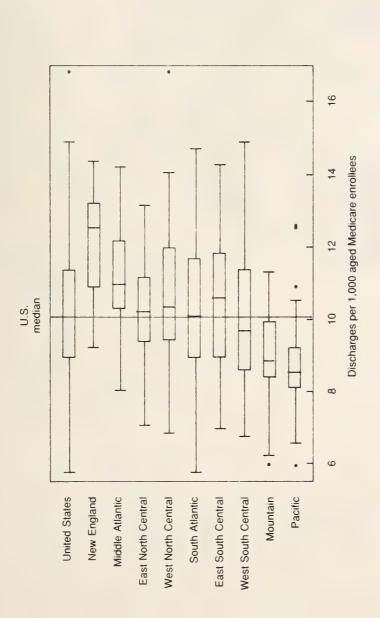
(1)Includes persons of other races in addition to white and black persons.
NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Figure 1. Acute myocardial infarction: Short-stay hospital discharges per 1,000 aged Medicare enrollees, by State: 1986



NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy. Data from the Medicare Statistical System.

Figure 2. Acute myocardial infarction: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by division: United States, 1986



Outliers for	Outliers for discharges per 1,000 enrollees	nrollees
Area	Rural or metropolitan	Rate
United States	Rapid City, SD	16.83
West North Central	Rapid City, SD	16.83
Mountain	Cheyenne, WY	5.97
Pacific	Rural counties, HI	5.74
	Bellingham, WA	10.92
	Richland, WA	12.59
SOURCE: Health Care Management and Strate	SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.	u of Data tistical System.

3.77 to 5.74 7.12 to 7.75 5.75 to 7.11 7.76 to 9.04 Death rate D.C.

Figure 3. Acute myocardial infarction: Deaths per 1,000 aged population, by State: 1986

Table 2. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enroliment	Disch	arges	30-day post-adm	mission deaths	2
Area of residence	Number	As percent of all enrollees	Nember	Per 1,000 non-HMD enroilees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
United States	26,698,924	96.70	280,579	10.51	242.0	2.543	6.98
Metropolitan	19,363,284		193,471	10.03-	239.3	2.405-	6.69-
Rural	7,335,640		87,108	11.75+	248.1+	2.899+	7.74+
Northeast	6,276,897	98.04	69,940	11.19+	230.2-	2.578	7.75+
Metropolitan	5,564,648	97.84	61,299	11.07+	229.7-	2.551	7.74+
Rural	712,249	99.69	8,641	12.07+	233.6	2.797+	7.82+
New England	1,569,313	96.20	19,308	12.32+	227.5-	2.817+	7.08
Metropolitan	1,342,886	95.66	16,551	12.37+	227.9-	2.836+	
Rural	226,427	99.53	2,757	12.06+	225.0	2.709	
Maine	153,209	88.66	2,055	13.30+	232.4	3.083+	7.91+
Metropolitan	82,345	66.66	1,070	12.97+	230.9	2.973	7.29
Rural	70,864	78.66	985	13.69+	234.0	3.210+	8.62+
New Hampshire	114,752	98.98	1,488	12.96+	225.6	2.935	7.42
Metropolitan	74,135	98.55	970	13.13+	232.7	3.051	7.82+
Rural	40,617	99.77	518	12.66+	212.5	2.724	6.69
Vermont	62,781	99.82	702	11.08	231.6	2.549	6.81
Meëropolitan	10,422	99.91	126	12.09	245.0	2.873	6.31
Rural	52,359	99.80	576	10.88	228.8	2.485	6.90
Massachusetts	709,478	93.75	9,211	13.02+	227.7-	2.970+	7.37+
Metropolitan	659,025	93.40	8,685	13.22+	228.7-	3.034+	7.52+
Rural	50,453	98.58	526	10.37	209.2	2.133	5.28-
Rhode Island	132,332	97.59	1,869	14.22+	222.0	3.195+	8.27+
Metropolitan	132,332	97.59	1,869	14.22+	222.0	3.195+	8.27+
Rurai	0	00.0	0	0.00	0.0	0.000	0.00
Connecticut Metropolitan Rural	396,761 384,627 12,134	97.56 97.50 99.66	3,983 3,831 152	10.08 10.01 12.53	227.2 226.3 249.2	2.317- 2.294- 3.044	5.74- 9.11
Middle Atlantic	4,707,584	98.68	50,632	10.81+	231.2-	2.499	7.99+
Metropolitan	4,221,762	98.55	44,748	10.66	230.4-	2.460-	7.97+
Rural	485,822	99.76	5,884	12.08+	237.6	2.837+	8.12+
New York Metropolitan Rurai	2,143,249 1,922,371 220,878	98.98 98.89 99.75	22,198 19,684 2,514	10.34 10.23 11.28	230.3- 228.7- 243.8	2.387- 2.352- 2.686	8.33+ 7.80+
See notes at end of table							

Table 2. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	r 1,000 deaths on-HMO per 1,000 rollees persons	2.537 7.76+ 2.537 7.76+ 0.000 0.00	2.563 7.55+ 2.563 7.51+ 2.966+ 8.39+	2.528 6.93 2.528 7.90+	2.555 7.24+ 2.869+ 8.38+	2.821+ 7.22+ 2.737+ 6.88 3.116+ 8.38+	2.672 7.47+ 2.488 6.86 2.994+ 8.53+	2.367- 7.52+ 2.367- 7.30+ 2.876+ 8.20+	2.720+ 8.09+ 2.667 7.96+ 2.881+ 8.50+	2.433 7.54+ 2.411 6.99 2.465 8.35+	2.752+ 6.74- 2.429 5.90- 2.994+ 7.43+	2.912+ 5.66- 2.549 4.69- 3.228+ 6.78
30-day post-admissic	Per 1,000 no	247.0 247.0 0.0	224.6- 222.8- 233.1	249.4+ 249.8+ 248.8+	251.4+ 252.0+ 250.0	258.7+ 260.1+ 254.2	262.0+ 261.0+ 263.6	246.8 246.8 258.4	248 249.5 5.2	233.5 239.9 224.7	245.5 242.1 247.6	2453.00 2455.00
scharges	Per 1,000 non-HMO enrollees	10.22	11.74+	10.74+	10.51	11.02+ 10.61 12.46+	10.22 9.56- 11.37	11.00.004	10.87	10.39	11.23+ 10.01- 12.16+	11.94+
0 1	t s Number	9,275 9,275 0	19,159 15,789 3,370	74,398 44,224 30,174	49,752 34,735 15,017	13,825 10,367 3,458	6,342 3,791 2,551	12,546 9,025 3,521	10,616 7,846 2,770	6,423 3,706 2,717	24,646 9,489 15,157	4,836 1,958 2,878
MO enroliment	As percen of all	5 97.84 5 97.84 0 0.00	98.75 6 98.56 4 99.78	5 96.39 1 95.22 4 98.51	97.76 97.13 2 99.47	9999 8999 1000 1000 1000	2 97.86 7 97.01 5 99.41	1 95.90 4 94.73 7 99.68	4 96.86 7 95.06 7	2 99.60 99.60 99.88	5 93.50 3 88.82 2 97.51	8 77.30 5 67.07 3 89.55
Non-HMD	Numbe	916,15	1,648,180 1,383,236 264,944	6,901,975 4,398,761 2,503,214	a 4,745,43 3,453,55 1,291,87	1,263,869 987,528 276,341	623,062 399,457 223,605	1,265,011 952,934 312,077	982,444 744,347 238,097	611,044 369,292 241,752	al 2,156,545 945,203 1,211,342	397,258 187,915 209,343
	Area of residence	New Jersey Metropolitan Rural	Pennsylvania Metropolitan Rural	North Central Metropolitan Rurai	East North Centr Metropolitan Rural	Ohio Metropolitan Rural	Indiana Metropolitan Rural	Illinois Metropolitan Rural	Michigan Metropolitan Rural	Wisconsin Metropolitan Rural	West North Centra Metropolitan Rural	Minnesota Metropolitan Rural

Table 2. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD e	enroliment	Discha	arges	30-day post-adm	mission deaths	+
		As percent		Per 1,000 non-HMO	er 1,00	Per 1,000 non-HMO	deaths per 1,000
Area of residence	Number	101	Number	101	discharges	nroll	person
I wa	404,057	9.3	, 32	0.5	51.	. 62	3.
Metropolitan	136,818	98.24	1,258 3,062	9.16-	255.2 249.6	2.339	6.85
				*	4	7.4.0	7.0
Missouri	655,875	8.1	ω, υ, ο	- 6	0 6	2.424	6.85
Rural	272,620	99.88	3,419	12.28+	258.9	. 16	0.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	O.F. 433	α	-	4	20.	. 55	9.
MOTOR DAKOVA	20,433	2 0	24	0.2	9	2.600	5.89
Rural	62,469	98.34	770	11.89	-	. 53	ω.
44 60 74 60 74 74 74	96 216	5	27	2.8	39.	00.	6.
Metropolitas	20.427		. 2	1.91	248.9	2.986	7.04
Rural	75,789	99.51	8	7	37.	00.	. 7
8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	209 910	5.	6	0.6	57.	.73	Τ.
Metropolitan	70.076	5.8		10.32	220.4	2.245	5.26-
Rural	139,834	99.91	1,567	8.	74.	96.	. 05
22 22 22 24 24	307, 796	5.8	.51		43.	. 71	. 90
Metropoliton	123,748	3.2	.08	8.77	263.3	2.296	6.01-
Rural	184,048	97.63	2,432	12.85+	÷	. 98	. 49
00 44 44 44 44 44 44 44 44 44 44 44 44 4	8.980.101	7.9	5,98	. 71	49.	. 66	0.
Metropolitan	5,757,016	18.96	56,364	9.85-	244.7	2.408-	6.39-
Rural	3,223,085	9.9	9,61	. 24	55.	. 10	. 19
South Atlantic	4,668,855	6.3	8,74	0.5	42.	. 54	. 78
Metropolitan	3,313,125	40.40 40.00	32,935	10.00-	238.0	2.382- 2.932+	6.32- 8.00+
TOTAL STATE	001,000,1	h			,		
Delaware	70,251	9.9	*	2.1	20.	69.	.47
Metropolitan Rural	44,355 25,896	დი თ თ. თ თ. თ	330	11.76	222.8	2.949	7.92
3) 1			•	*
Maryland	436,606	4.6	œ (1.5	* <	, 4 . 5 .	• «
Metropolitan Rural	395,091 41,515	98.44 99.95		10.92	207.7	2.247	7.35
	100	7	C	a	57 1	032	77
District of Col. Metropolitan Rural	66,196 06,196	00.00 00.00	4 22 0	00.00	157.1-0.0	1.032-	3.77-
See notes at end of table							

Table 2. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

Number N		Non-HMD enroll	ment pert	Discha	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30-day post-adm	on d	Tota eath
9.91 5,536 9.90- 243.2 2.377- 6,46 9.97 2,96- 245.2 2.202- 5.202- <td< th=""><th>Number</th><th>ແ ຄ</th><th>percen of all</th><th>u mb e</th><th>non-HMD nrollee</th><th>Per 1,00 ischarge</th><th>non-HMD nrollee</th><th>er 1,0</th></td<>	Number	ແ ຄ	percen of all	u mb e	non-HMD nrollee	Per 1,00 ischarge	non-HMD nrollee	er 1,0
8. 98 3,072 12.60+ 256.5 3.215+ 7.44 7. 39 1,142 251.0 3.214+ 7.44 9. 93 7,528 11.12+ 255.0 2.806+ 8.75 9. 93 7,528 11.12+ 255.0 2.806+ 8.75 9. 95 1,784 9.80 257.9 2.571 7.57 9. 44 3,394 10.56 256.0 2.81 8.28 9. 45 1,784 9.80 2.67.1 2.944 8.27 9. 54 3,029 11.00 2.85.0 2.844 8.27 9. 54 3,029 12.61+ 2.55.0 2.944 8.27 9. 54 16.841 9.70 2.45.6 2.345 8.19 9. 70 16.841 9.70 2.45.2 2.589 6.62 9. 70 11.149 11.29+ 2.24.6 2.485 9.76 9. 70 11.149 11.39+ 2.64.6 2.839 9.76 9.	566,135 355,193 210,942		0 0 0 0 0	, 53 , 17 , 36	9.90 9.09 1.24	45.	. 377 . 202 . 663	97
9.93 7,528 11.12+ 255.0 2.806+ 8.02 9.96 4,023 11.35+ 251.8 2.871 7.57 9.44 3,505 10.56 260.4 2.725 8.28 9.05 1,610 10.56 260.4 2.725 8.28 9.71 6,127 11.10+ 255.4 2.804+ 8.28 9.71 16,841 9.80- 251.6 3.245+ 9.13 9.93 16,841 9.80- 237.0 2.341- 8.28 9.94 16,841 9.80- 235.6 2.341- 8.24 9.97 16,841 9.72- 235.6 2.345- 9.13 9.17 2,002 10.40 257.3 2.485 7.98 9.17 2,002 10.40 2.50.9 2.312- 9.14 9.17 2,002 10.40 2.50.9 2.312- 9.14 9.17 2,002 10.40 2.50.9 2.485 1.788	244,259 90,704 153,555		9.78	, 14 , 93	2.60 2.71 2.54	56.5 61.0 53.8	.215 .274 .181	. 40 . 77 . 77
9.44 3,394 10.56 260.4 2.725 8.28 9.05 1,784 9.80 267.1 2.587 8.28 9.95 1,610 11.56 267.1 2.587 8.28 9.71 6,127 11.10+ 255.4 2.824+ 8.19 9.54 3,028 12.61+ 251.6 2.845+ 9.17 9.95 16,841 9.80- 237.0 2.845+ 9.17 0.04 14,839 10.40- 237.0 2.341- 5.94 9.17 2.002 10.40- 247.2 2.341- 5.86 9.17 2.002 10.003- 249.6 2.493 7.05 9.17 11,149 12.98+ 261.9 2.493 7.05 9.26 4 11,149 12.98+ 2.61.9 2.589 9.04 9.37 11,149 12.98+ 2.61.9 2.886+ 7.05 9.46 11,143 2.61.9 2.389 7.06	689,138 346,905 342,233		0 0 0 0 0 0	52,50	1.12 0.30 1.95	55. 51.	.806 .571	. 57
9.71 6,127 11.10+ 255.4 2.824+ 8.13 9.54 3,029 9.88 251.6 2.485 7.39 9.93 12.61+ 259.2 3.245+ 7.39 9.97 16,841 9.80- 237.0 2.341- 5.94 9.04 14,839 10.40- 237.0 2.341- 5.96 9.64 19,839 11.50+ 254.0+ 2.589 6.62 9.64 11,149 12.98+ 263.5+ 3.315+ 8.91 9.70 5,008 11.83+ 263.5+ 3.315+ 8.91 9.70 3,235 13.39+ 264.4+ 3.528+ 9.76 9.65 6,416 11.70+ 249.2 2.886+ 7.82 9.65 6,416 11.70+ 249.2 2.886+ 7.75 9.97 2,979 14.26+ 262.2 3.691+ 7.75 9.97 2,245 10.19 254.5 2.604+ 7.06 9.97 2,251 12.39+ 256.6 2.952+ 8.79 9.98	329.020 186.873 142,147		400	, 39 , 78	0 0 1	60. 67. 53.	. 58	. 28 . 28 . 27
0.97 16,841 9.80- 237.0 2.341- 5.96 9.17 2,002 10.40 247.2 2.312- 5.86 9.17 2,002 10.40 247.2 2.589 6.62 9.64 8,690 11.50+ 254.0+ 2.905+ 7.05 9.64 11,149 12.98+ 257.3+ 3.315+ 8.91 9.70 5,008 11.83+ 263.5+ 3.102+ 8.91 9.37 1,773 9.76 261.9 2.533+ 9.76 9.46 3,235 13.39+ 264.4+ 3.528+ 9.76 9.46 3,437 10.12 249.2 2.886+ 6.52 9.96 3,437 10.12 238.0 2.389 6.52 9.97 2,645 10.19 2.54.5 2.604+ 7.06 9.97 2,251 12.39+ 2.62.2 3.691+ 7.06 9.96 635 9.61 2.60.4 8.79 9.96	561,716 313,319 248,397		0 0 0 0 0	020,000	1.10 9.88 2.61	555.	.824 .485 .245	.39
9.80 19,839 11.50+ 254.0+ 2.493 9.64 8,690 10.03- 249.6 2.493 9.97 5,008 11.83+ 263.5+ 3.102+ 9.04 9.37 1,773 9.76 264.4+ 3.528+ 9.04 9.65 6,416 11.70+ 249.2 2.886+ 7.82 9.46 3,437 10.12 238.0 2.389 6.52 9.96 2,979 14.26+ 262.2 3.691+ 9.92 9.97 2,845 10.19 2246.6 2.742+ 7.06 9.97 2,251 11.33+ 256.8 2.604 7.06 9.97 2,845 10.19 2245.6 2.604 7.06 9.97 2,251 12.39+ 2.554.5 2.504 8.79 9.96 635 9.61 2.555.5 2.453 6.93 9.96 2.555.5 3.041+ 7.16	1,705,534 1,514,489 191,045		0.0	6,84 4,83 2,00	9.80	37.0 35.6 47.2	.341 .312 .589	94.
9.70 5,008 11.83+ 263.5+ 3.102+ 9.04 9.37 1,773 9.76 261.9 2.533 8.07 9.65 3,235 13.39+ 264.4+ 3.528+ 9.76 9.65 6,416 11.70+ 249.2 2.886+ 7.82 9.46 3,437 10.12 238.0 2.389 6.52 9.96 2,97 2,979 11.06 246.6 2.742+ 7.75 9.97 2,845 10.19 254.5 2.604 7.06 9.97 2,251 12.39+ 255.6 2.910+ 7.11 9.98 3,319 11.33+ 259.9 2.910+ 7.11 9.96 635 9.61 255.5 2.453 6.93 9.98 2.096 11.83+ 260.9 3.041+ 7.16	1,726,272 873,594 852,678		0 0 0 0 0	9,83 8,69 1,14	1.50	54. 49. 57.	. 905 . 493 . 315	. 98 . 05
9.65 6,416 11.70+ 249.2 2.886+ 7.82 9.46 3,437 10.12 238.0 2.389 6.52 9.96 2,979 14.26+ 262.2 3.691+ 9.92 9.97 2,845 10.19 246.6 2.742+ 7.75 9.97 2,845 10.19 254.5 2.604 7.06 9.97 2,251 12.39+ 236.8 2.952+ 8.79 9.96 635 9.61 255.5 2.453 6.93 9.96 2,684 11.83+ 260.9 3.041+ 7.16	422,657 183,264 239,393		9.9	,00 ,77 ,23	1.83 9.76 3.39	63. 61.	. 533 . 528	.07
9.97 5,096 11.06 246.6 2.742+ 7.75 9.97 2,845 10.19 254.5 2.604 7.06 9.97 2,251 12.39+ 236.8 2.952+ 8.79 9.98 3,319 11.33+ 259.9 2.910+ 7.11 9.96 635 9.61 255.5 2.453 6.93 9.98 11.83+ 260.9 3.041+ 7.16	550,327 342,007 208,320		640	443	1.70	98.	. 886 . 389 . 691	922
9.98 3,319 11.33+ 259.9 2.910+ 7.1 9.96 635 9.61 255.5 2.453 6.9 9.98 2,684 11.83+ 260.9 3.041+ 7.1	463,131 281,960 181,171		0 0 0 0 0	984	1.06 0.19 2.39	36.	. 742 . 604 . 952	. 75
	290,157 66,363 223,794		999	. 31 63 68	9.00	55.0	910	6

Table 2. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enroliment	Discha	rges	30-day post-adm	mission deaths	4
		As percent		Per 1,000 non-HMD	Per 1,00		deaths per 1,000
Area of residence	Number	0 e	Number	n roll	discharges	101	person
West South Central Metropolitan	2,584,974 1,570,297	47.00 00.00 70.00	27,395 14,739 12,656	10.55 9.42- 12.26+	257.6+ 256.8+ 258.6+	2.710+ 2.415- 3.147+	6.88 6.21- 7.86+
Arkansas Metropolitan Rural	321,739 100,966 220,773		3,71	4.00		3.002+ 2.789 3.097+	7.14 6.12- 7.60+
Louisiana Metropolitan Rural	415,968 268,137 147,831	0 0 0 0 0	62	10.61 9.86 11.95+	258.2 261.0 254.1	2.695 2.543 2.959+	6.29 8.24- +
Oklahoma Metropolitan Rural	378,716 180,038 198,678	99.05 98.00 99.66	4,352 1,799 2,553	11.38+ 9.99 12.60+	260.8+ 265.3 257.7	2.971+ 2.673 3.233+	7.84+ 7.34 8.29+
Texas Metropolitan Rural	1,468,551 1,021,156 447,395	99.81 99.73 99.97	14,9001 5,0001	10.12- 9.14- 12.30+	255.1+ 251.3 261.5+	2.580 2.298- 3.195+	6.53- 6.01- 7.66+
West Metropolitan Rural	4,539,951 3,642,859 897,092	99.3.08 97.986 98.88	40,258 31,584 8,674	8.83 9.66-	232.1- 233.5- 227.0-	2.053- 2.030- 2.147-	
Mountain Metropolitan Rural	1,200,638 720,893 479,745	94.36 92.10 97.98	10,899 6,115 4,784	9.05- 8.52- 9.84-	229.7- 231.0 228.1	2.068- 1.961- 2.226-	5.28 4.96-1
Montana Metropolitan Rural	97,248 21,173 76,075	001	952 172 780	9.67 8.11- 10.10	244.2 285.1 235.3	2.349 2.299 3652	5.66- 4.52- 5.97-
Idaho Metropolitan Rural	109,822 18,471 91,351	99.77 99.90 99.74	1,076 125 951	9.67 6.79- 10.24	216.1 222.3 215.3	2.098- 1.484- 2.220	6.24- 7.35 6.02-
Wyoming Metropolitan Rural	42,408 12,265 30,143	000 000 000 000 000	4 8 8 8 9 4 8	10.26 7.71 11.29	267.8 246.5 273.6	2.815 1.991 3.139	6.46 4.46- 7.26
Colorado Metropolitan Rural	266,663 201,737 64,926	96.73 96.73 98.23	2,374 1,705 669	8.87- 8.47- 10.08	218.0- 220.0 212.8	1.923- 1.860- 2.111	5.69- 5.32- 6.79
e notes at end of table.							

Table 2. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	deaths per 1,000	4.13- 3.74- 4.43-	5.02- 4.96- 5.21-	5.21- 4.95- 5.88-	4.89- 4.47- 6.54	5.51-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	5.20- 5.01- 5.81-	4.82- 4.88- 4.72-	5.66- 5.67- 5.45-	4.57- 4.85 4.43-	4.30- 4.33- 4.22-
-admission deaths	Per 1,000 non-HMD earollees	1.890- 1.682- 2.029-	2.085- 2.107- 2.018-	1.990- 1.937- 2.126	2.099- 1.971- 2.564	2.048- 2.047- 2.056-	2.141- 2.090- 2.293	1.942- 1.948- 1.933-	2.069- 2.062- 2.197-	1.962 2.635 1.640	1.286- 1.467- 0.850-
30-day post-adm	Per 1,000 discharges	205.7- 197.2 210.8	242.4 243.7 238.5	233.2 231.8 236.7	227.4 222.2 243.3	233.0- 234.0- 225.8	230.8 231.8 228.1	234.1 243.3 221.2	234.0- 233.9- 234.7	258.9 300.5 234.2	198.8 217.1 147.3-
ges	Per 1,000 non-HMD enrollees	9.9.40 9.62-	8.72- 8.73- 8.69-	8.59- 8.41- 9.06	9.04- 8.71- 10.26	8.75- 9.69-	9.32- 9.03- 10.20	8.46- 8.19- 8.87-	8.77- 8.73- 9.37-	7.32- 8.13 6.92-	6.43- 6.71- 5.74-
Dischar	Number	1,187 442 745	3,032 2,241 791	1,110 785 325	729 551 178	29, 359 3, 859 00, 890	4,331 3,143 1,188	2,594 1,498 1,096	21,786 20,391 1,395	1119 44 75	529 399 136
enroliment	As percent of all enrollees	92.49 85.86 97.76	91.33 89.11 98.31	0 0 0 0 0 0 0 0 0 0 0 0 0 4 0	86.15 84.73 91.83	92.62 91.93 97.77	92.41 90.86 97.42	86.84 80.38 98.65	93.71 93.36 99.57	800 900 900 900 900	83.64 83.31 84.47
Non-HMO e	Number	125,371 51,612 73,759	348,748 257,931 90,817	128,579 93,319 35,260	81,799 64,385 17,414	3,339,313 2,921,966 417,347	461,706 346,977 114,729	303,778 181,677 122,101	2,477,248 2,330,007 147,241	16,348 5,625 10,723	80,233 57,680 22,553
	Area of residence	New Mexico Metropolitan Rural	Arizona Metropolitan Rural	Utah Metropolitan Rural	Nevada Metropolitan Rurai	Pacific Metropolitan Rural	Washington Metropolitan Rural	Oregon Metropolitan Rural	California Metropolitan Rural	Alaska Metropolitan Rural	Hawaii Metropolitan Rural

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (Population).

Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 persons 7.37+ 7.64+ 10.19+ 5.63-6.50 8.27+ 5.74-5.80-5.44-5.67-7.91+ 7.16 7.74 7.20 7.75+ 6.98 7.08 7.42 7.68 8.01 6.81 Total 30-day post-admission deaths Per 1,000 non-HMD enrollees 2.935 3.241+ 2.761 2.970+ 3.046+ 2.544+ 2.875 3.083+ 3.202 2.500 3.023 2.317-2.250 2.353 2.216 2.402 .195+ .195+ 2.817+ 2.543 2.578 2.549 2.873 Per 1,000 discharges 227.7-225.9-239.7 227.8 246.2 230.2-231.6 227.2 217.0 226.7 225.5 242.0 232.4 243.1 2229.6 227.4 225.6 244.2 214.7 222.0 227.5 Per 1,000 non-HMD enrollees 13.30+ 13.69 11.14 13.21+ 12.96+ 13.10+ 13.16+ 13.02+ 13.36+ 14.36+ 11.13 13.18+ 14.22+ 11.19+ 12.32+ 11.08 12.09 10.08 10.29 10.17 9.70 10.51 Discharges 2,055 221 150 699 5,735 5,735 931 225 859 935 3,983 992 1,594 253 1,488 390 702 1,869 1,869 Number 280,579 69,940 19,308 As percent of all enrollees 99.89 98.98 97.91 99.52 93.75 95.67 98.67 91.00 79.57 97.56 96.63 99.16 95.31 99.82 96.70 98.04 96.20 enroliment Non-HMD 709,478 429,794 65,540 20,281 72,225 71,185 396,761 96,911 157,139 102,964 27,613 53,209 16,035 13,464 52,846 114,752 44,397 29,738 62,781 132,332 Number 6,276,897 1,569,313 26,698,924 발 Lewiston-Auburn, Portland, ME Area of residence Pittsfield, MA Springfield, MA Worcester, MA New Hampshire Massachusetts New Bedford, MA Bridgeport, CT Hartford, CT Manchester, NH Portsmouth, NH Burlington, VT Rhode Island New London, CT Providence, RI New Haven, CT United States Connecticut New England Bangor, ME Boston, MA Vermont Northeast Maine

notes at end of table

Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

Non-HMD errollment	ed states, type							
Coloniary Colo			e a	sch	rges	-day	ission deaths	40
Control Cont	residenc	u mb e	percen of ail	Ę	er 1.00 non-HMO nrollee	Per 1,00 ischarge	er 1,00 non-HMO nrollee	deaths er 1,00
WW YORK 2.143.249 98 98 22,198 10.34 220.3- 2.387- 8.33 May WAR May Size 15.122 98 98 1.661 1.061 2.20.3- 2.23.3- 2.23.3- 2.25.3- 1.20.3- 9.20.3- 1.20.3-	le Atlanti	,707,58	9.6	0,63	. 81	31.	. 49	99.
National N	. × 0 ⊃ × ×	.143.24	8.9	2,19	0.3	30.	. 38	<u>ښ</u>
March Marc	× ×	115,12	8.7	, 22	9.0	20.	س	∞. •
1	N. No.	5,57	g . g	36	0	40		. 13
Secretary, NY 15,229 99,54 147 10,77 225.7 226.5 171 10,77 226	×	34,45	8.6	, 43	8			× 6
Name	ΝΥ	3,69	6.6	4 (0.7	233	41	٠,
Jau-Suffolk, NY 927,474 99,88 10,005 10,20 277 0. 217 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 110 0. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	IIIS, NY	15,22	9.6	18	9.0	9 4	 	
are Pairs, NY 397,473 99,58 10,000 247,29 247,39 2615 97,57 are Pairs, NY 30,641 99,68 10,000 332 10,93 248 99,68 90,68 90,68 90,68 90,68 90,68 90,68 90,68 90,99 90,99 <td>Suffolk, N</td> <td>97,14</td> <td>ω. σ</td> <td>3,03</td> <td>0.28</td> <td>10</td> <td>0.4</td> <td></td>	Suffolk, N	97,14	ω. σ	3,03	0.28	10	0.4	
10.93 3.5 10.93 24.8 9.69 9.69 9.7 9.69 9.7 9.69 9.89	, NY	97,47	9.5	00.00	96.6	17.9		
Jacobson, NY 27, 488 99, 89 34, 89 11, 21 255, 2251, 2291, 95, 91 11, 91	Fails, N	0,84	9.6	(r)	6. O	φ. ι Ο ι	00.	
Figure Piece, NY 127,864 98.47 1.290 10.35 223.3 2.591 5.50 cuse, NY 102,542 98.47 1.290 10.35 223.3 2.556 5.06 cuse, NY 46,733 99.90 60.00 60.00 60.00 2.34 2.557 60.00	County, N	0,48	ص ص	4	1.2		10.	
NA	psie, N	27,86	8.4	29	0.3	25.	. 29	ა ი
NA	N . L .	02,54	8.8	, 16	.3	23	. 56	. 52
1.5 c	2	5,21	9.9	0	8.03	64.	. 12	5.
# Jersey # J	ле, N	6,73	9.9	9	2.1	65.	. 24	. 30
W Jersey W Jersey John September Sep		4	1	6	0	47	T,	76
1,658 9.75 248.6 2.446 7.15 9.45	Jersey	10,15	- 1	77.	, , ,	- 0	. 4	0.1
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Jegical National Nati	ב יא. ביי גאי	900	7 - 4	5 5	۳ ۲	000	56	7
The college Part	SEX, NO.	21,00		4 4	0.47	50	35	. 68
location in the control of the contr	Secretorian, a	11,01	, O	0	. 23	46	31	.03
land, NJ 16,382 96.17 200 12.35 362.4+ 4.572+ 10.24 10.24 10.39 10.39 10.59 10	2 2 2 2 2	28 40		47	2.51	37.	98	. 38
nnsylvania 1,648,180 98.75 19,159 11.74+ 224.6- 2.628 7.65 ntown, PA-NJ 94,668 99.09 10.59 12.43 24.6- 2.345 7.08 ntown, PA 20,692 99.99 256 12.43 244.9 2.345 7.08 er County, PA 27,562 99.95 286 10.59 244.9 2.901 7.28 er County, PA 35,244 99.95 276 276.1 2.92 7.28 stown, PA 70,260 99.97 790 10.94 286.7 2.654 6.40 stown, PA 40,260 99.97 423 87.7 21.63 7.41 adelphia PA 48.045 99.93 6.622 11.77 21.63 7.62 stown, PA 122.88 99.95 1.328 1.38 2.163 7.41 stown, PA 122.88 99.95 1.328 1.20 2.712 2.712 stown, PA 10.03	land, N	6,38	6.1	0	2.3	62.	. 57	. 2
nnsylvania 1,945,168 99.09 15.15.1 10.59 220.9 2.345 7.08 ntown, PA-NJ 20,692 99.99 256 12.43 244.9 2.901 20,592 99.99 256 12.43 244.9 2.901 7.28 99.99 27.562 99.99 27.562 99.99 27.562 99.99 27.562 99.99 27.562 99.99 27.562 99.99 77.2.92 99.99 77.2.92 99.99 77.2.92 99.99 77.3.214 282.7 2.039 77.85 20.039 77.41 22.16 2.039 77.41 2.00.2 2.039 77.41 2.00.2 2.039 77.41 2.00.2 2.039 77.41 2.00.2 2.039 77.41 2.		010	1	-	1 74	9.0	63	9
PA 27,562 99.99 256 12.43 244.99 2.901 9.92 256 12.43 244.99 2.901 9.92 256 10.59 218.3 2.292 7.28 2175 8.99 22.292 7.28 218.3 2.292 7.28 2.292 7.28 2.292 7.28 2.292 7.28 2.292 7.28 2.292 7.28 2.292 7.264 99.95 7.264 13.21+ 282.7 2.654 6.40 2.654 6.622 11.77+ 211.6- 2.654 7.62 3.633+ 7.62 3.634+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.634+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.634+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.634+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.633+ 7.62 3.62 3.633+ 7.62	THEST VEHICA	,040,10	. c	0 0	200	20.	3.4	0
Frounty, PA 27,562 99.95 286 10.59 218.3 2.292 7.28 8.99 275.1 2.175 8.99 2.175 8.99 2.175 8.99 2.175 8.99 2.175 8.99 2.175 8.99 2.175 8.99 2.175 8.99 2.175 8.99 2.175 8.99 2.10.94 2.10.38 2.10.38 2.10.38 2.10.38 2.10.38 2.10.38 2.10.38 2.10.38 2.10.38 2.10.38 2.10.38 2.10.38 2.10.38 2.10.38 2.10.39 2.10.38 2.10.39 2.10.39 2.10.79 2	DA 000	7	. 0	1 15	4	44	90	σ.
Stown, PA 72,929 99.95 796 10.94 251.8 2.654 6.40 10.94 251.8 2.654 6.40 10.94 251.8 2.654 6.40 10.94 251.8 2.654 6.40 10.94 251.8 2.654 6.40 10.94 251.8 2.654 13.21 2.039 7.04 13.21 2.039 7.04 13.21 2.039 7.04 13.21 2.039 7.04 13.21 2.039 7.04 10.039 10.039 7.04 10.032 99.95 11.03 2.25 11.03 2.25 11.03 2.678 99.97 14.18 2.21.8 2.678 99.97 14.18 2.35.8 3.225 10.38 13.63 2.00.2 2.654 6.57 99.96 5.24 10.79 2.00.2 2.654 6.57 99.96 5.24 10.79 2.00.2 2.654 6.57 99.96 5.24 10.79 2.00.2 2.654 8.657 99.96 5.24 10.79 2.30.4 2.482 8.657 99.96 5.24 10.79 2.30.4 2.482 8.657 99.96 5.24 10.79 2.30.4 2.482 8.657	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	7.56		00	0.5	18.	. 29	7
ster, PA 72,929 99.95 790 10.94 251.8 2.654 6.40 stown, PA 40,260 99.97 524 13.21+ 282.7 3.633+ 7.85 aster, PA 40,260 99.97 6.622 11.77+ 237.5 2.039 7.41 ansport, PA 122,888 99.95 1.328 11.03 2.55.5 2.830 8.04 12.17 2.163 8.04 12.17 2.163 8.04 12.17 2.163 8.04 12.17 2.163 8.04 12.17 2.163 8.04 11.03 2.55.5 2.830 8.04 12.17 2.18.1 2.678 99.97 14.18 2.35.8 3.225 10.38 6.57 99.98 13.63 2.00.2 2.654 6.557 8.00 99.96 5.24 10.79 2.30 13.63 2.00.2 2.654 8.557 8.00 99.96 5.24 10.79 2.30 13.63 2.00.2 2.654 8.557 8.00 99.96 5.24 10.79 2.30.4 2.482 8.652	P 4	5.24	0	1	8.01	76.	.17	. 99
ster, PA	sburg. P	2.92	6.6	6	0.94	51.	. 65	4.
aster, PA 48,045 99.93 423 8.73- 237.5 2.039 7.04 adelphia PA-NJ 569,054 95.81 6,622 11.77+ 211.6- 2.482 7.41 adelphia PA-NJ 569,054 95.81 6,622 11.77+ 211.6- 2.712 7.41 adelphia PA 48,476 99.06 3,874 12.18+ 221.0- 2.712 7.712 7.41 adelphia PA 48,476 99.95 1.328 11.03 255.5 2.830 8.04 adelphia PA 19,009 99.97 12.17 218.1 2.678 9.27 adelphia PA 10,032 99.97 14.18 235.8 3.225 10.38 adelphia PA 16,877 99.98 230 13.63 200.2 2.654 6.57 8.524 10.79 230.4 2.482 8.62	stown. PA	0.26	9.9	S	3.21	82.	. 63	œ
adelphia PA-NJ 569,054 95.81 6,622 11.77+ 211.6- 2.482 7.41 559,054 99.05 3.874 12.18+ 221.0- 2.712 7.62 11.63 6.31 1.63 8.34 99.05 8.88 99.92 221.8 2.21.8 2.830 8.04 8.34 12.00 99.97 2.30 12.17 2.18.1 2.678 99.97 14.18 235.8 3.225 10.38 8.04 8.541 99.96 524 10.79 230.4 2.482 8.654 8.657	aster. P	8.04	9.9	O	8.73	37.	. 03	0
Sburgh, PA 323,494 99.06 3,874 12.18+ 221.0- 2.712 7.62 7.62 1 1.03 1.04 7.65 7.163 6.31 6.31 1.03 1.04 7.63 1.04 7.65 7.04 7.65 7.04 7.65 7.04 7.65 7.04 7.65 7.04 7.65 7.04 7.05 7.04 7.05 7.04 7.04 7.05 7.04 7.04 7.04 7.04 7.04 7.04 7.04 7.04	adelphia PA-N	69,05	5.8	,62	1.77	11.6	.48	**
ing, PA 48,476 99.88 482 9.92 221.8 2.163 6.31 6.151 6.151 6.152 6.153 6	sburgh, PA	23,49	9.0	,87	2.18	21.0	. 71	. 62
nton, PA 122,888 99.95 1,328 11.03 255.5 2.830 8.04 001, PA 19,009 99.97 230 12.17 218.1 2.678 9.27 001, PA 10,032 99.97 142 14.18 235.8 3.225 10.38 10.38 16.877 99.98 230 13.63 200.2 2.654 6.57 6.57 99.96 524 10.79 230.4 2.482 8.62	ing, P	48,47	9.8	48	6.6	21.	.16	. 3
on, PA 19,009 99.97 230 12.17 218.1 2.678 3.27 10.38 e College, PA 10,032 99.97 142 14.18 235.8 3.225 10.38 iamsport, PA 16,877 99.96 524 10.79 230.4 2.482 8.62	nton, P	22,88	9.9	, 32	1.0	22	. 6	9 6
e College, PA 10,032 99.97 142 14.18 235.8 3.225 10.38 jamsport, PA 16,877 99.98 524 10.79 230.4 2.482 8.62 8.62 8.62 8.62 8.62 8.62 8.62 8.	on, PA	9,00	6	m·	2.1		9.	12.6
iamsport, PA 16,877 99.98 230 13.63 200.2 2.054 0.5 , PA 48,541 99.96 524 10.79 230.4 2.482 8.6	e College, P	0,03	6 6	4	4.1	9	. 22	0.38
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Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD	enrollment	Disch	arges	30-day post-adm	mission deaths	+
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD earollees	deaths per 1,000
North Central	6,901,975	96.39	74,398	10.74+	249.4+	2.678+	7.28+
East North Central	4,745,430	97.76	49,752	10.51	251.4+	2.643+	7.55+
Ohio Akron, OH	1,263,869	99.46	13,825	11.02+	258.7+	2.821+	7.22+
Canton, OH	51.	ດ. ດ.ດ	492	9.4	200	. 73	.39
		9.7	(n)	0.19	46	. 51	2.0
Columbus, OH	23,	` ত	90	 0	65	. 72	. 4.
Hamilton, OH	26,	0.0	30	σ, α	0.5	.61	- 4
Lima, OH Lorain-Elyria, OH		2 CO	→ ←	1.5	100		90
•		9.0	- K	1.2	0 4	. 22	E
Toledo OM		0 0 0	0	2.6	55	.20	*
Youngstown, DH		o.	2	1.1	4	. 75	4.5
Indiana	623,062	7.8	4	0.5	62.	.67	
1-	17,198	დ. ი	80 P	۵. «	- 6	. 26	
e -	15,647	, o	- 49	. 7	88.	98	
IN-KY	34,434	5.7	91	0.68	20.	40	
Z F	37,565	7.7	~ 4	0.7	75.	.458	
Indianapolis, IN	118,407	3.8	4	8.8	36.	.13	
. ;	10	9.9	12	₩.	14.	. 28	
Lafayette, IN	11,228	ກ ດາ ວາ ດາ	24	. e	64.	99.	
	33,170	60 60 60 60 60 60 60 60 60 60 60 60 60 6	296 256	46.6	244.0	2.176	6.65
lerre Haute, IN	19,060	0 n	3		•	•	•
S	0,01	5.9	44	6.4	249.8	2.497	7.52+
to 9	67	9.0	マヤ	.31		90	-
n, IL	13,39	6.6	12	8.99	0	84.0	4.0
	. o	y 6.	7 12	. 60		.667	. 84
	0.	7.1	5	9.1	٠i ه	.58	<u>ص</u> ه
H :	000	ი . ი .	S) K	5, C	# m	. 91	7 6
•	, 54	90	379	89.0		.60	200
Rockford, IL Springfield, IL	28,351 24,799	88.99 99.98	263 174	0.005	D
See notes at end of table.							

Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	deaths per 1,000 persons	.09 .37 .20 .20	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	7.5.4 6.94 7.4.7 6.92 4.52 4.38 6.38 7.10	8.8.	5.05.4 6.05.4 1.05.6 1.	6.51 6.03 6.99 7.081 7.081
ission deaths	Per 1,000 non-HMD enrollees	32.35	2.156 2.156 3.032 2.343 2.197 2.759	2.247 2.247 2.230 2.127 2.461 2.556 2.356	. 28 . 98 . 75	2.912+ 3.575+ 2.461 1.743	2.625 1.885 2.210 2.175 2.508 2.827 2.827
30-day post-admi	Per 1,000 discharges	44864	243.0 2687.6 229.0 271.8 267.3	2233 2233 2245.5 2233 224.9 2221.7 268.8 268.8	4 0 0 4	2543.3 254.4 165.2 89.8	251.2 204.8 204.8 205.1 200.1 200.0 200.0 200.0
8 1968	Per 1,000 non-HMD enroliees	900011	10.01 8.069 12.67 12.67 11.76 19.95	10.39 11.38 11.38 10.05 10.05 0.88 9.33 9.43	w44 G	11.94+ 14.06+ 10.04 10.20	10.50 9.42 9.70 8.23- 7.34- 10.53
Disch	Z e de c	16 16 16 16 17 17	4,870 2123 2133 1199 187 438	6,423 196 196 196 1141 1289 1,575	113	4,836 1,429 1,429 132	4,320 183 433 329 107 159 207
enrollment	As percent of all enrollees	∞ ∞ ∞ ⊲	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ത്ത്ത് ഹ	77.30 76.74 64.45 99.67 70.92	000000000 0000000 000000 000000 0400000
Non-HMD e	Rumber	7,44 7,76 6,83	48,826 43,084 64,091 17,046 21,512 32,460 18,957 42,162	611,044 34,483 16,955 19,185 16,529 11,858 30,776	946	397,258 29,977 141,769 9,393 12,248	404,057 19,323 44,646 40,067 11,460 15,240 15,951
nited States, 1986	Area of residence	Michigan Ann Arbor, MI Battle Creek, MI Benton Harbor, MI	Detroit, MI Flint, MI Grand Rapids, MI Jackson, MI Kalamazoo, MI Lansing, MI Muskegon, MI Saginaw, MI	Wisconsin Appleton, WI Eau Claire, WI Green Bay, WI Janesville, WI Kenosha, WI LaCrosse, WI Maldison, WI	WI WI	Minnesota Duluth, MN-WI Minneapolis, MN-WI Rochester, MN St. Cloud, MN	Cedar Rapids, IA Cedar Rapids, IA Davenport, IA-IL Des Moines, IA Dubuque, IA Iowa City, IA-NE Waterloo, IA

Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD	enroliment	Discha	charges	30-day post-admission	ission deaths	
7 C C C C C C C C C C C C C C C C C C C	2 Z	As percent of all	Z E E D C	Per 1,000 non-HMD enroitees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
)						
Missouri	655,875	8.1	7,396	11.17+	245.4	2.742+	7.37+
Columbia, MO	8,560	თ. თ.	- (7.5	o c	0 0	. u
Joplin, MO	19,275	و. و ب	20	0.43	V C	9 4	. ^
Kansas City, MO-KS	154,919		10			212	. ~
St. Joseph, MD	13,630	20 L	- 0	, d	ο 4 ο α	1 4	70
St. Louis, MO-IL	283,107	0 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	370	- ო	20.	.03	. ن
מבי ביים מיים	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	•					
North Dakota	85,433	8.2	1,010		220.7	2.555	6.62
0	8,160		66	1.9	21.	. 76	. 61
NO-ON LAND	14,138	6.5	143	œ	53.	. 47	4.
Grand Forks, ND	5,687	9.9	28	6.	15.	. 34	٠.
	310 30	u o	77	00	30		6
South Dakota	30,210	9 0		, α	2.5	774	74
Rapid City, SD	1.152	n con con con con con con con con con co	7 0 0	9 0	27.5	2 571	9
Sioux Falls, SD	13,275	ת מ	471	7			
	010 000	a a	20	9	57.	7	***
		, σ	2 100	8.7	43	-	7.
Chicola, at	57.609) on on on on on on	640	11.11	223.6	2.471	6.35
1		} •					
Kansas	307,796	5.8	3,519	S	243.1	2.719	00.9
Lawrence, KS	4,965	7.7	4	٠,	96	ο,	١٥
× S	18,983	97.26	132		25.	٠, ٥	•
Wichita, KS	45,844	8.5		٥.	5	N	t.
South	8,980,101	97.94	95,983	10.71+	249.0+	2.660+	7.03
South Atlantic	4,668,855	96.31	48,749	10.51	242.2	2.541	6.78-
	•	•	-	-	00	9	
Delaware Wilmington, DE-NJ-MD	58,114		724	12.64+	241.3	3.062	6.78
	405 505	4	a	1 56	14.0	47	4
Maryiand Daitimo	744 878	. 0	0	2.40	08.	. 59	8
Cumberland, MD-WV	17,051	99.95		14.04+	238.0	3.280	8.42
	14,522	9.9	7 -4	4.64	53.	. 76	4
District of Col.	66,196	99.75 99.05	422	6.38-	157.1- 209.2-	1.032-	3.77-
See notes at end of table.	•						

Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD	enroliment	Discharge	rges	30-day post-admission	ission deaths	4
		As percent of all		Per 1,000 non-HMD	Per	응물	deaths per 1,000
Area of residence	Number	-	Number	enrollees	Schar	enrollees	6750
	1,705,534	0	16.841	-08.6		.34	
100		6		8.98		. 28	
יייים אינים אינים ביים ביים ביים ביים ביים ביים ביים	62,616	2	575	60.6		.30	
	181,839	-	2,095	11.36		. 49	
	61.428	6	•	6		.35	
TH 0010 110	41,198	6	384	9.33		. 34	
FT. Walton Beach, FL	10,169	99.88	116	11.65	197.8	2.253	5.21
Sville, FL	16,758	9	175	0		. 17	•
Jacksonville, FL	80,895	œ.	650	œ		.01	•
Lakeland, FL	55,495	9.	290	0		8	
Melbourne, FL	46,501	9.		10.57		. 66	
Miami-Hialeah, FL	168,502	ь О	2,068	—		50	
Naples, FL	23,433	6	135	5.72-		. 20	
Ocala, FL	31,367	თ	304	9.16		30	
Orlando. FL	90,604	æ	820	9.11-		. 16	۰
Panama City, FL	11,817	60	100	8.59		. 20	
Pensacola, FL	29,972	6	281	9.55		.37	
Sarasota, FL	77,895	6	741	9.33		660	
Tallahassee, FL	17,414	7.		7.16-		. 630	80.
Tampa, FL	323,951	7	2,782	8.20-		080	
West Palm Beach, FL	9,72	Š.	•	10.18		. J	, U
East South Central	1,726,272	08.86	19,839	11.50+	254.0+	2.905+	7.98+
- 1	422 667	7	0	α	63	10	
Kentucky 	31 000	- α h α	200	9 . 8	228.8	2.362	49
	107 485	0	1.039	7	48.	.39	
Owensboro, KY	10,319	96.66		6.	34.	. 28	Ψ.
	550.327	9.6	6,416	1.7	6		00
ttanooga TN	50.	6.6	S	0.3	6		9
rksville, T	12,541	6.6	137	æ	9		9
	10,064	9.9	7.1	6.9	m	•	7.
Johnson City, TN-VA	55,068	9.9	651	<u>ق</u>	0	•	8.
_	70.970	G .	741	0.5		. 000	7 4
mphis.	88,836 02,004	98.00	987	10.51	215.0	2.247	7.05
100 S	- n n - 7 n	n				•	

Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

-	deaths per 1,000 persons	7.75+	4,	. 4	e. (7.	χ	. 9		7.11	7.	<u>.</u> ۱		6.88	7.14	0	۳.	₹.	4	6.99	7	9	æ (. 52	? (. 24	c.	7.84+	99.	7	0	ო.
-admission deaths	Per 1,000 non-HMD enroilees	2.742+	.66	. 54	. 86	. 62	. 35	. 51	•	2.910+	087.	S	. 48	2.710+		. 59	. 51	. 34	96.	2.695	. 28	. 69	. 35	. 60	. 45	. 21	. 55	. 28	2.971+	.04	. 64	. 57	. 73
30-day post-adm	Per 1,000 discharges	246.6	46.	 90 00	30.	20.	72.	 ໝູ		259.9	90	30.	33.	257.6+	63.	60.	291.4	77.	14.	258.2	。	8		ന		٠ د	9	m m	60.	33.	299.0	78.	42.
arges	Per 1,000 non-HMD enrollees	11.06	9.0	2.3	2.3	0	9.	ۍ œ		11.33+	1.7	ю	ო.	10.55	1.4	3.8	12.40	8.4	6.	9.	4.	9.6	. 7	7.1	10.50	0.1	8	0	ω.	ტ.	9.22	9.2	0.
Disch	Number	5,096	٠Ω ،	4 0	7	9	en i	90	4	3,319	-	9	6	27,395	-	16	266	N	\rightarrow	~ ~	10	7	4	0	171	16	7	6	4,352	7	7.5	819	00
enrollment	As percent of all enrollees	76.99	6.6	ດ ດ ດ ດ	6.6	9.9	6.6	თ. თ თ. თ	n	86.66	6.6	6.6	9.8	99.74	6.6	6.6	86.66	6.6	9.9	6.6	9.9	9.9	0.0	9.9	96.66	о 6	9.9	თ თ	9.0	9.9	66.66	7.4	8.1
Non-HMO e	Number	463,131	108,546	12,690	14,295	17,137	50,513	29,832		290,157	œ	u)	ш.	2,584,974	321,739	11,803	21,413	50.966	11,012	415,968	'n	6	m	4	16,436	4.	æ,	9	378,716	8,215	8,221	88,646	71,032
	Area of residence	Alabama	Birmingham, AL	Dothan, AL	Gadsden, AL	Huntsville, AL			scaloosa, x		1-Gulf	Jackson, MS	Pascagoula, MS	West South Central	Arkansas	,	• «	AR	Pine Bluff, AR	Louisiana	Alexandria, LA		ouma-Thibo		Lake Charles, LA	Monroe, LA	s,	Shreveport, LA	Октароша	Enid, OK	Lawton, OK	Oklahoma City, OK	Tuisa, OK

Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD enrollme	nrollment	Discha	scharges	30-day post-adm	mission deaths	+
		As percent of all		Per 1,000 non-HMD	e 1,	Per 1,000 non-HMO	deaths
Area of residence	Number	=	Number	101	discharges	- 0	perso
	1 468 551	8	0	0.1		. 2	. 53
- c		6.6	15	4		<u>ښ</u> .	٥,
Amarillo, TX	19,063	6.6	-	4.		. 868	
Austin, TX	47,578	ი. ი.	က (4.0		∵ ເ	, c
Beaumont, TX	42,323		Pα			i r	8
Brazoria, IX	20,169	0 00	150	7.30-	237.6	1.670-	4.71-
	6,955		2	8.29		.551	. 54
Corpus Christi, TX	28,417	5.5	23	۳.		.754	. 31
Dallas, TX	172,118	6.6	S	. 75		٠, ١	
El Paso, TX	37,292	თ. თ.	ဂ ၀	٠,		900	519
Fort Worth, TX	10,247	n 0	ה ת	, 0		. 00	
Houston, TX	187,992	. 8	· (V			7	œ
Killeen-Temple, TX	17,182	9.9	19	1.4		4.	4.
Laredo, TX	8,421	6.6	-	0.6		9	ې د
Longview, TX	20,547	თ. თ. ი	1 3	70		م	່ແ
Lubbock, TX	18,457	ים ממ	- 0	0 0			, α
X	7.362	90	1	0.01		S.	. 95
Odessa. TX	9,207	9.9	\vdash	2.9	_	9	. 85
	11,213	6.6	N:	.16		. 849	~ 0
×	107,989	9.5	4 +			ກຸດ	2 6
Sherman-Denison, TX	14,532	ກ ດ ກ ດ	٦ د			٠,	. 4
E I	18,213	ה ה ה	٦ -	0.0			0
Victoria	6.871	6.6	4	9.4		₹.	6.
×	23,624	9.9	4	7		9.	ო .
Wichita Falls, TX	14,462	6.6	2	₹.		₹	Ξ.
West	4,539,951	93.08	40,258	8.83-	232.1-	2.053-	5.43-
Mountain	1,200,638	94.36	10,899	9.05-	229.7-	2.068-	5.28-
	97,248	6.		φ.	44.	.34	9.
60 K	12,097	99,88	75 97	6.20- 10.64	289.8 281.2	1.848 2.875	3.66- 5.63-
3							1
Idaho Boise City, ID	109,822	99.77	1,076	9.67	216.1 222.3	2.098-	6.24- 7.35
Wyoming Casper, WY	42,408	99 99 10.99	4 8 8 8	10.26	267.8	2.815	4.29-
Cheyenne, WY		ල ල		Ó,	30.	9	9
See notes at end of table	٠						

Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

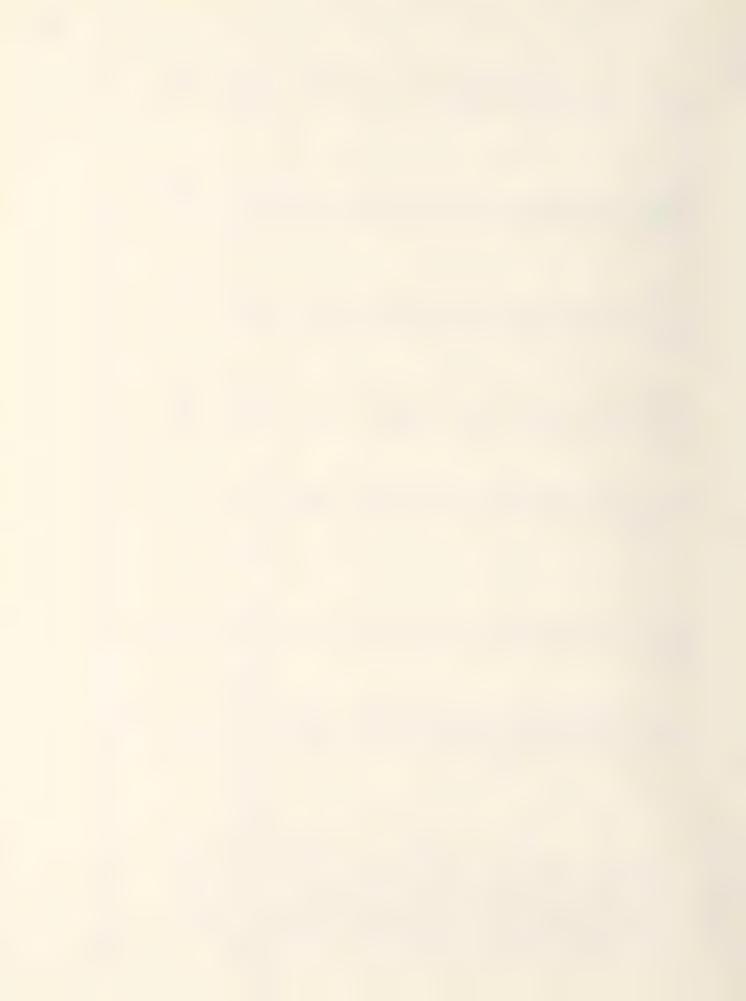
atistical area:	t.	deaths per 1,000 persons	5 4 4 4 6 6 9 6 9 6 9 6 9 9 9 9 9 9 9 9 9	3.13. 3.99. 3.581. 1.55.	5.02- 5.06- 4.70-	5.21- 5.12- 4.92-	. 4 . 68 . 69 . 1 . 1 . 1	5.48-	5.20- 6.20- 7.51- 1.	4 4 4 4 0 8 2 8 2 8 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1
metropolitan sta	ission deaths	Per 1,000 non-HMD enrollees	1.923- 1.997- 1.997- 1.754- 2.555- 1.814	1.890- 1.551- 2.497 1.306-	2.085- 2.094- 2.140	1.990- 2.127 1.897-	2.099- 2.033 1.829	2.048-	2.141- 2.005- 2.0099 2.0089 1.9880 2.232- 2.312- 546	1.942- 1.976 1.778- 1.896- 2.177
n, State, and m	30-day post-admi	Per 1,000 discharges	218.0- 180.7 239.4 208.5- 280.9 263.8	205.7- 182.1- 264.4 171.9	242.4 254.6 219.6	233.2 231.7 231.8	227.4 225.7 213.7	233.0-	230.8 172.2 219.4 219.4 157.4 221.0 279.8 186.6	234.1 231.7 207.7 243.5 275.7
on and divisio	arges	Per 1,000 non-HMD enrollees	8.87- 8.45 8.37- 8.37- 8.93 8.29	9.40- 8.49- 7.33	8.72- 8.40- 9.63	8.59- 9.28 8.22-	9.04- 8.67- 8.81	8.75-	9.32- 10.92 12.53 12.53 8.459 9.03- 12.51 9.15-	88.53 8.53 8.90 1.96 1.96
by census regi	Disch	Number	2,374 208 208 996 135 105	1,187 283 92 67	3,032 1,562 679	1,110 150 635	729 384 167	29,359	4,331 151 125 1,349 411 212 212	2,594 181 192 277
aged population,	enroliment	As percent of all enrollees	94.73 97.96 95.03 94.10 99.71 43	92.49 81.01 99.94 93.66	91.33 86.74 96.06	000 	86.15 82.98 89.17	92.62	992.51 990.98 990.98 94.51 97.24 90.32	86.84 88.67 99.78 72.79 90.39
rate for the	Non-HMO	Number	266,663 15,143 24,899 119,624 15,089 11,610	125, 371 33, 783 9, 375 8, 454	348,748 187,381 70,550	128,579 16,076 77,243	81,799 45,252 19,133	3,339,313	461,706 13,629 15,439 14,254 159,859 41,255 70,245 70,248	303,778 28,947 20,326 99,155 33,249
rollees and total death rited States, 1986		Area of residence	Colorado Boulder-Longmont, CO Colorado Springs, CO Denver, CO Fort Collins, CO Greeley, CO	New Mexico Albuquerque, NM Las Cruces, NM Santa Fe, NM	Arizona Phoenix, AZ Tucson, AZ	Utah Provo-Orem, UT Salt Lake City, UT	Nevada Las Vegas, NV Reno, NV	Pacific	Washington Bellingham, wa Bremerton, wa Olympia, wa Richland, wa Seattle, wa Spokane, wa Tacoma, wa Yakima, wa	Dregon Eugene, DR Medford, DR Portland, DR Salem, OR

Table 3. Acute myocardial infarction: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD	Non-HMG enrollment	Discharges	arges	30-day post-admission	ission deaths	Total
		As percent		Per 1,000		Per 1,000 non-HMD	deaths per 1,000
Area of residence	Number	5	Number	enrollees	disch	enrollees	persons
	2.477.248		21,786		234.0-	2.069-	-99.5
Anather Santa Ana CA	167.171		1,384		228.1		-80.9
- (44.969		384		254.4		5.80-
	27.102		267		242.2		4.72-
	58,425		513		252.4		5.43-
- ON Angeles CA	677,939		6,267		227.5-		6.26-
	13,462		121		257.6		5.69
Modesto CA	33,619	98.80	307	9.12	187.9	1.737-	5.67-
	188,258		1,634		222.6		. 58
Oxnard-Ventura, CA	49,488		413	•	256.5		4.31-
	17,796		146		294.0		6.01
Disconding CA	203,246		•		252.0	•	6.67
Sacremento. CA	120.273	•	1,026		212.6		5.22-
Salinas	29.131		224		227.3		. 59
San Diego. CA	205,402		1,591		234.5		1 2 2 3
San Francisco, CA	163,753		- 0	۰	237.1		- /0.4
San Jose CA	105.258		406		245.7		. 25
Santa Barbara, CA	38.021		254	•	303.6		4.68-
	24.640		190		237.8		5.04-
Santa Rosa, CA	44 . 775		336		188.8		3.71-
Stockton	40,855	3	333	8.00-	247.4		4.92-
Za Leion	35,778	ഹ	345	ഗ	229.9		5.27-
() () () () () () () () () ()	28,811		296	10.12	249.0		6.26
Yuba City, CA	11,835	.	108	٥.	241.1	٥.	5.92
	16.348	7 .	119	ω.	258.9	1.962	4.57-
Anchorage, AK	5,625	99.75	44	8.13		9 .	
 28 28	80.233	83.64	529	6.43-	198.8	1.286-	.30
Honolulu, HI	57,680	ന	393				4.33-

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMDs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01).

SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).



This volume contains data on hospitalization and mortality for all cancers and for the two leading causes of death from cancer: cancer of the digestive organs and peritoneum and cancer of the trachea, bronchus, and lung. In 1986, cancer was the second leading cause of death for aged Medicare enrollees, after heart disease, accounting for 20.7 percent of all deaths among the aged.

Out of 8.7 million discharges among the Medicare aged in 1986, 714,863 discharges (8.2 percent) had a principal diagnosis of cancer. The discharge rate for cancer was 26.77 discharges per 1,000 enrollees (Table 1). In 1986, the death rate from cancer among the general aged population was 10.56 deaths per 1,000 persons. The 30-day post-admission mortality rate among the Medicare population was 160.1 deaths per 1,000 discharges, i.e., more than 16 percent of total discharges. There were 4.29 deaths within 30 days of admission per 1,000 enrollees.

Age and sex patterns

Both discharge rates among the Medicare population and mortality rates among the general population were substantially higher for men than for women across all three age groups. For example, among enrollees aged 85 years or over, the discharge rate for men was more than twice that for women, 42.78 discharges per 1,000 men versus 19.82

NOTE: All cancers is ICD-9-CM codes 140-208.

discharges per 1,000 women. Similarly, the mortality rate in the general population was 24.59 deaths per 1,000 men that age, versus only 12.77 per 1,000 women.

Discharge rates were highest among those aged 75–84 for both men and women. Deaths per 1,000 persons in the general population rose sharply with age, approximately doubling from the age group 65–74 years to the age group 85 years or

Patterns by race

Medicare discharge rates for all cancers combined were similar for white and black women in all age groups. Discharge rates tended to be slightly higher for black men than for white men, except in the oldest age group.

cancer deaths per 1,000 among black women and white persons decreased with age. There 24.62 for white men, 12.54 for black women were 14.55 deaths per 1,000 black men aged Over all age groups combined, black men 4 percent higher than that for white women. women of that age. At age 85 years or over, had a population mortality rate that was 27 percent higher than the rate for white men; The differences in mortality between black death rates were 26.20 for black men and white men the same age. There were 7.17 the death rate for black women was only 65-74 years, versus only 10.63 per 1,000 aged 65-74 years and 6.58 among white and 12.83 for white women.

Thirty-day post-admission mortality per 1,000 discharges was higher among black enrollees than white enrollees for all age and sex groups. Over all age groups combined, the 30-day post-admission rates were about 8 percent greater for black men and 19 percent greater for black women than for their white counterparts.

Variation by geographic area

Tables 2 and 3 contain data on utilization and mortality by geographic area. The tables are broken out by U.S. census region, division, and State. Data on metropolitan and rural areas within each State are shown in Table 2, whereas data at the metropolitan statistical area (MSA) level are shown in Table 3. Figures 1–3 were derived from the data in these tables.

Discharge rates

The highest discharge rates for all cancers combined tended to occur in States in the eastern and southern parts of the Nation (Figure 1), although the highest discharge rate for cancer was 31.72 per 1,000 enrollees in South Dakota. The lowest discharge rates tended to be in the Western United States. The lowest rates were 19.10 in Utah and 19.43 in Hawaii. The variation of MSA-specific discharge rates by census division is shown in Figure 2. The highest median rates were in the New England, Middle Atlantic, and East South Central

Divisions, whereas the lowest median rates were in the Mountain and Pacific Divisions.

The variation among MSAs with respect to discharges per 1,000 enrollees was small in relation to the variation in other diagnostic categories. The coefficient of variation for all cancers was 0.13, the lowest coefficient of variation of any diagnostic category. (Fracture of the neck of femur had the same low value.)

Population death rates

population death rates per 1,000 persons for In 1986, the highest population mortality excluding the Far West States of California, primarily in States along the east coast and Washington, and Nevada. The highest rate, found in the District of Columbia, and the between cancer mortality in an area and its population mortality occurred in the West. suggesting a moderate positive relationship n Ohio and Alaska (Figure 3). The lowest 13.36 deaths per 1,000 aged persons, was cancer and the hospital discharge rate per lowest rate, 7.89 per 1,000, in Utah. The rates from cancer for the aged occurred 1,000 enrollees for cancer was 0.44, correlation coefficient between the nospital utilization.

Correlations between rates

Pearson correlation coefficients were computed between sets of rates consisting of MSA and rural area rates. Discharge rates per 1,000 enrollees and 30-day post-admission death rates per 1,000 discharges were uncorrelated (r = 0.04). As noted earlier, discharges per 1,000 enrollees were positively correlated with deaths per 1,000 persons (r = 0.44). To the extent that population mortality reflects the underlying level of cancer, high hospitalization rates would be expected in areas of high population mortality as a result of greater numbers of people seeking treatment.

Urban-rural patterns

Nationwide, the discharge rate for cancer was similar in urban and rural areas (27.09 and 25.96 discharges per 1,000 enrollees, respectively). Thirty-day post-admission death rates were also similar (158.8 deaths per 1,000 discharges in urban areas and 163.6 per 1,000 in rural areas).

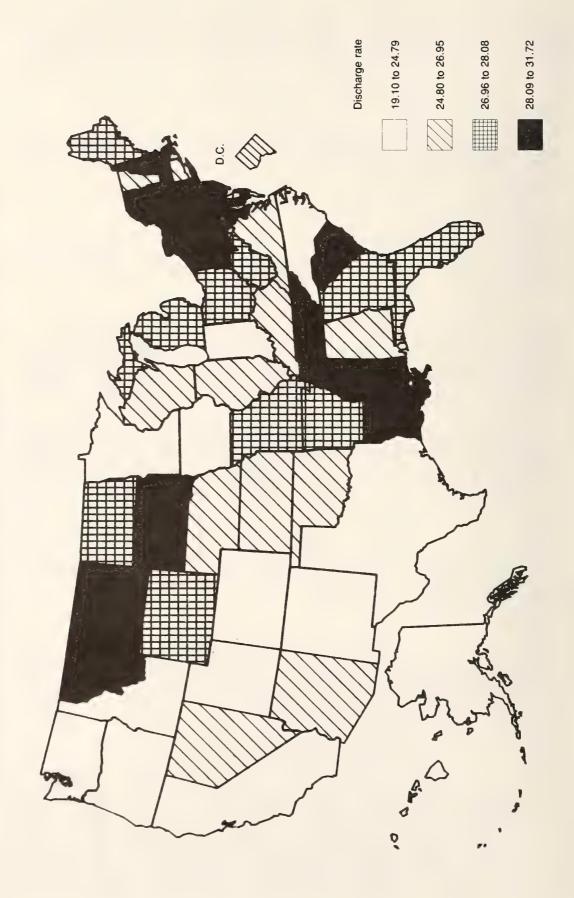
short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total by age, sex, and race: United States, 1986 deaths per 1,000 persons 10.56 8.46 12.87 16.11 13.95 10.86 18.45 24.59 8.25 6.57 9.54 0.50 8.37 2.80 6.12 13.75 10.63 18.27 24.62 8.29 6.58 9.56 12.83 2.19 0.30 4.84 6.86 17.52 14.55 22.49 26.20 8.61 7.17 10.17 12.54 Total post-admission deaths Per 1,000 non-HMO effollees 4.26 3.65 5.20 5.13 4.29 3.69 5.23 5.12 5.88 4.75 7.98 8.50 20 81 65 90 3.19 2.80 3.63 3.89 5.01 4.41 6.00 5.71 6.99 5.97 9.03 8.54 3.69 ი. 4 დ დ 8888 Per 1,000 discharges 182.9 177.9 186.8 202.4 176.0 160.9 184.8 225.9 60.1 67.4 67.4 70.0 61.7 77.2 96.7 58.9 48.2 66.2 95.1 69.2 60.7 76.8 95.7 47.9 34.4 54.7 ∞ m ∞ 179. 30-day Per 1,000 non-HMD enrollees 26.77 24.65 31.27 26.04 34.82 29.77 45.18 42.78 21.43 20.69 23.33 19.82 26.81 24.65 31.28 26.29 34.72 29.56 45.15 43.41 21.58 20.83 23.45 19.99 38.21 33.56 48.33 42.19 20.99 20.18 22.88 20.00 84 91 27 59 25. Discharges 714,863 398,516 250,818 65,529 632,254 350,332 223,218 58,704 326,121 183,817 116,230 26,074 306,133 166,515 106,988 32,630 370,883 210,099 131,599 29,185 343,980 188,417 119,219 36,344 55,468 31,436 18,832 5,200 30,294 17,432 10,411 2,451 25,174 14,004 8,421 2,749 Number As percent of all enrollees 95.94 95.83 95.94 96.01 95.90 96.02 97.22 97.07 96.55 97.42 98.69 97.49 97.28 97.67 98.74 98.10 97.74 98.37 99.26 97.16 96.66 97.51 98.74 96.62 96.23 96.88 98.26 97.86 97.54 98.11 333 enroliment 9999 Non-HMO 26,698,924 16,162,594 8,020,447 2,515,883 10,650,991 7,056,445 2,912,366 682,180 3,391,016 5,216,472 2,573,989 600,555 14,183,050 7,990,592 4,560,510 1,631,948 1,199,155 693,709 368,028 137,418 5,047,933 9,106,149 5,108,081 23,574,066 14,207,064 7,134,499 2,232,503 792,788 519,305 215,401 58,082 991,943 213,014 583,429 195,500 Number Enrollment, population, 9000 9 6 C 1. All cancers: rate for the aged OVEF over OVER 65-74 years 75-84 years 85 years of over OVEF over Over OVEF over sex, and race 65-74 years 75-84 years 85 years or o Men 65-74 years 75-84 years 85 years or c White 65-74 years 75-84 years 85 years or ₩ошеп Women Women Black Men Men Table

the Medicare Statistical System. of the Census (population). maintenance health Of Data from S. Bureau not members Ξ. and Strategy (deaths) and were (1)Includes persons of other races in addition to white and black persons.

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and organizations (HMDs) are included in Medicare data.

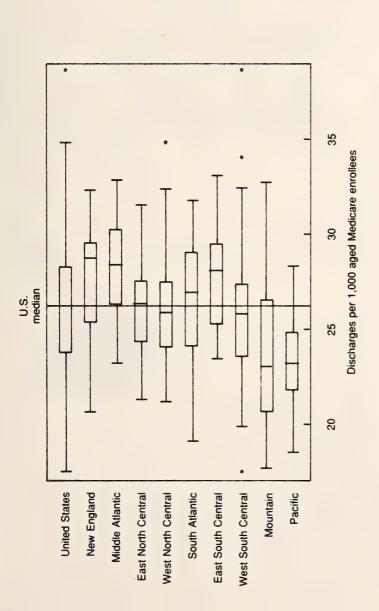
SQURCES: Health Care Financing Administration, Bureau of Data Management and Strippopulation death rates derived from National Center for Health Statistics (deaths

Figure 1. All cancers: Short-stay hospital discharges per 1,000 aged Medicare enrollees, by State: 1986



NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

Figure 2. All cancers: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by division: United States, 1986



Outliers for	Outliers for discharges per 1,000 enrollees	nrollees
Area	Rural or metropolitan statistical area	Rate
United States	Monroe, LA	38.59
West North Central	Sioux Falls, SD	34.80
West South Central	McAllen, TX Lake Charles, LA	17.45 34.03
	Monroe, LA	38.59
SOURCE: Health Care Management and Strateg	SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.	u of Data istical System.

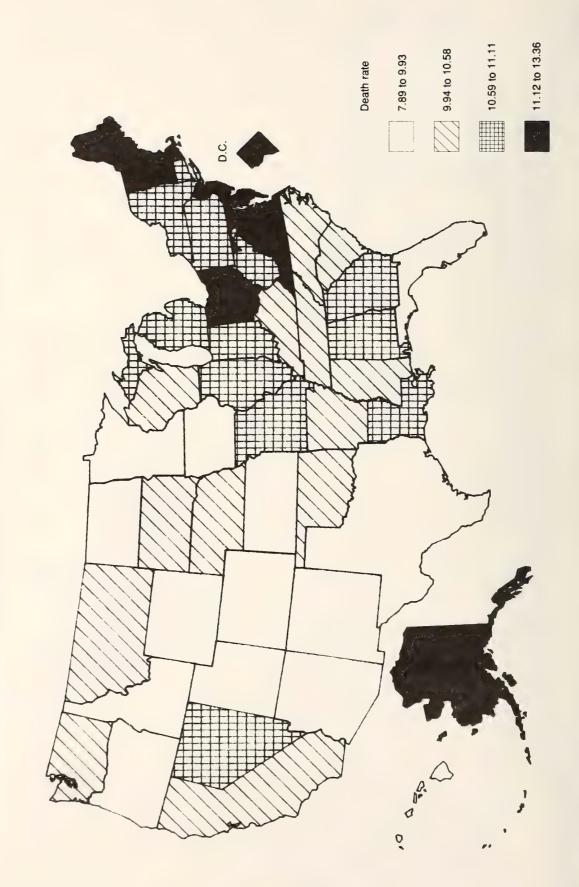


Figure 3. All cancers: Deaths per 1,000 aged population, by State: 1986

SOURCES: Population death rates were derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 2. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	o CMU non	enroliment.	Disch	arges	30-day post-adm	ission deaths	
		5					Tota
		-		-: :	•		deaths
9	E 2	of all	Number	enrollees	discharges	enrollees	persons
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	,						L
United States	369	•	714,863	26.77	P 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4.28/	10.00
	363	5.8	22,21	7.0	58.	30	200
1	7,335,640	9.1	92,65	5.96	63.	. 24	96.
		•		0	7	EAS	1 26
Northeast	6,276,897	40.89	180,004	+05.07	1 - 2 0 0 7	4.000	11.204
Metropolitan		7.8	60,74	9.10	22.	- 00 -	10.1
	712,249	9.6	9,92	7.84	64.	186.	ж Э
			i	1	6	C L	
New England	1,569,313	96.20	44,742	28.75+	1000	+ + + + + + + + + + + + + + + + + + + +	+ 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0
Metropolitan	1,342,886	2.0	8,42	9.100	57.	100.	1 - 10
Rural	226,427	ა ა	,32			TCQ.	1 . 30
		0	T	-	α	5.7	1.4
Maine	153,203	000	2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	26.76	000	4	11.21
Metropolitan	, N	ם ס ת	- 0	0 0) (1		-
Rural	ċ		א א	0	9		
	114 759	α	4	9.97	96.8	906.	2.12
MOW TAINDEAN	74 125		2,220	30.19+	206.3+	6.245+	12.43+
E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40.50	9 6	15	9.57	79.2	.293	1.5
- 72			•				
Vermont	62.781	9.8	9	6.4	186.6+	4.967	11.44
Metropolitan	10.422	6		27.02	15.	. 88	3.0
X =	52,359	08.86	00	6.3	80.	. 78	
Massachusetts	709,478	93.75	22,086	31.55+	157.7	4.983+	11.03+
Metropolitan	9,02	3.4	0 0	1.73	N (. 000	100
Rural	0,45	დ	8	9.2	3.	2	7 . 30
	0		4	L	24.2	426	1.2
KIOGG ISTAG	132,332	U R	2000		124.2-	3.426-	11.28
Sec. 070 - 02 = 02 = 02 = 02 = 02 = 02 = 02 = 0	,	00.0	•	0.0	0.0	00.	0.0
	•						,
Connecticut	396,761	-	9,798	24.85-	150.5-	3.744-	11.11+
Metropolitan	384,627	٠.	, 54	4. 0.	9.0	749	1.10
Rural	12,134	9.6	4	0.62	3	0	
0 · + c c - + < 0 - 7 · · · · · · · · · · · · · · · · · ·	4 707 FR4	α	35.92	9.02	56.1	. 536	1.18
	4 221 762		200	0 15	55	534	1.2
Direct Opol - van	485 822	92.00	13,601	27.89+	163.5	4.557+	10.56
	1) -))	!		
New York	2,143,249	8.9	.95	9.01	54.	.476	0.6
Metropolitan	1,922,371	98.89 8.77	00 4,00 4,00 9,00 9,00	29.00+	162.8	4.739+	11.02
2	0101077	•					
notes at end of table.							

Table 2. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enrollment	Disch	arges	30-day post-adm	mission deaths	
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMO enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
New Jersey	916,155	97.84	27,339	30.04+	157.0	4.723+	11.58+
Metropolitan	916,155	97.84	27,339		157.0	4.723+	11.58+
Rural	0	0.00	0		0.0	0.000	0.00
Pennsylvania	1,648,180	9999.75	46,630	28.47+	158.5	4.509+	11.11+
Metropolitan	1,383,236	999.55	39,483	28.78+	157.4	4.530+	11.29+
Rural	264,944	99.73	7,147	26.91	164.1	4.404	10.17
North Central	6,901,975	96.39	182,506	26.44-	159.6	4.216	10.60
Metropolitan	4,398,761	98.22	117,940	27.02	162.1	4.377+	11.03+
Rural	2,503,214	98.51	64,566	25.44-	154.9-	3.940-	9.85-
East North Central	4,745,430	97.76	125,715	26.56	163.3+	4.334	10.85+
Metropolitan	3,453,558	97.13	92,626	27.02	165.3+	4.461+	11.11+
Rural	1,291,872	99.47	33,089	25.37-	157.9	4.002-	10.16-
Ohio Metropolitan Rural	1,263,869 987,528 276,341	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	34,541 27,319 7,222	27.49+ 27.90+ 26.02	160.1 162.5 150.9	4.392 4.529+ 3.910-	11.20+11.44+
Indiana	623,062	97.86	15,193	24.48-	169.3+	4.130	10.92
Metropolitan	399,457	97.01	10,085	25.44-	172.3+	4.365	11.21+
Rural	223,605	99.41	5,108	22.79-	163.3	3.714-	10.42
Illinois	1,265,011	995.90	33,927	26.95	164.8	4.444+	10.88+
Metropolitan	952,934	99.73	25,583	27.08	166.4	4.508+	11.22+
Rural	312,077	68	8,344	26.55	159.9	4.250	9.79-
Michigan	982,444	8.0.4	26,672	27.21	161.3	4.382	10.67
Metropolitan	744,347	8.0.4	20,291	27.46	162.1	4.441	10.75
Rural	238,097	8.0.4	6,381	26.45	158.7	4.200	10.41
Wisconsin Metropolitan Rural	611,044 369,292 241,752	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15,382 6,348 6,034	24.95- 25.31- 24.41-	165.0 169.5 157.9	4.126 4.304 3.860-	10.31 10.58 9.91-
West North Central	2,156,545	93.50	56,791	26.17-	151.4-	3.961-	10.09-
Metropolitan	945,203	88.82	25,314	27.04	150.7-	4.072-	10.76
Rural	1,211,342	97.51	31,477	25.51-	151.9-	3.876-	9.54-
Minnesota	397,258	77.30	0 4 4 4 0 0 4 4 0 0 0 0 0 0 0 0 0 0 0 0	24.20-	157.3	3.808-	9.91-
Metropolitan	187,915	67.07		24.15-	164.4	3.961	10.45
Rural	209,343	89.55		24.24-	151.3	3.674-	9.29-

deaths per 1,000 persons 10.62 11.34+ 9.63-9.98-11.39 9.28-12.19+ 12.71+ 11.33 12.11+ 12.04+ 12.81+ 13.36+ 13.36+ 0.00 9.57-9.58 9.57-9.86-10.34 9.53-9.78-9.94 9.71-10.39-10.65 9.93-10.56 10.65 10.33-10.15 11.38 9.84 Total 30-day post-admission deaths Per 1,000 non-HMO enrollees 3.418-3.304-3.476-4.331 4.203-4.559+ 3.946 4.257 3.794-.199 4.019 3.749-4.196 4.031 4.168 3.982 4.569 5.021 4.450 4.260 3.691 5.225 4.532 4.492 4.905 .267 .415 828 828 000 Per 1,000 discharges 138.6-132.5-141.7-161.2 155.8-170.8+ 59.8 53.7-75.4+ 53.6 50.6-144.8 143.8 145.1 144.1 148.2 142.9 156.2 163.0 152.8 156.8 146.4 163.6 55.7 36.2 88.1 57.2 55.3 74.9 143. Per 1,000 non-HMO enrollees 24.65-24.96-24.50-27.79+ 29.30+ 25.71 31.72+ 33.93+ 31.13+ 25.19-26.08 24.76-26.97 27.33+ 26.08-28.89+ 28.96+ 28.21 27.87 28.89 27.50 25.67 25.68 25.66 26.93 27.00 26.79 27.37 26.99 28.00 26.60 26.60 0.00 Discharges 10.024 3.394 6,630 242,060 155,039 87,021 125,734 90,390 35,344 12,495 11,318 1,177 18,278 11,147 7,131 2,446 668 1,778 3,109 694 2,415 5,349 1,811 3,538 7,945 3,155 4,790 1,906 1,182 724 1,738 Number As percent of all enrollees 99.37 98.24 99.96 98.17 96.99 99.88 98.28 98.14 98.34 99.59 99.92 99.51 98.52 95.86 99.91 95.82 93.24 97.63 97.94 96.87 99.91 96.31 94.94 99.84 900.00 900.00 900.00 999.49 99.44 99.95 99.75 enroliment Non-HMD 8,980,101 5,757,016 3,223,085 404,057 136,818 267,239 655,875 383,255 272,620 209,910 70,076 139,834 307,796 123,748 184,048 ,668,855 ,313,125 ,355,730 70,251 44,355 25,896 436,606 395,091 41,515 66,196 66,196 0 85,433 22,964 62,469 96,216 20,427 75,789 Number 4.ω. District of Col. Metropolitan South Dakota Metropolitan Rural Nebraska Metropolitan Rural Area of residence Metropolitan Missouri Metropolitan North Dakota Metropolitan Metropolitan Rural South Metropolitan Metropolitan Metropolitan Metropolitan South Atlantic Delaware Maryland Rural Rural Rural Kansas IOWa

Table 2. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

See notes at end of table.

enrollees and total United States, 1986 Table 2. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare death rate for the aged population, by census region and division, State, and metropolitan and rural counties:

As percen	ent ercen		Discharg	30	ay post-admi	Per 1,00	Total deaths per 1,000
	9.91	% 11 □ 40	mber en , 998	- 7.5	scharge 176.0+ 174.0+	4.70	11.40 11.88
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	in w	,838	0. 0.	79.4	.881	9.0
97.3	က္တ		, 128 2 , 128 2	0.1.	73.3	. 194 . 697	0.72
689,138 99.93 346,905 99.89 342,233 99.96	0,00	14	. 530 . 234 . 296	1.33- 1.15- 1.50~	180.5+ 177.1+ 183.9+	3.834- 3.932-	10.24
329,020 99.44 186,873 99.05 142,147 99.95	4.0.0	QUITO 4	9,385 5,192 4,193	8.95+ 8.26 9.86+	169.9 159.6 182.7+		000
561,716 99.71 313,319 99.54 248,397 99.93	L 20 .	 8 6	,286 ,555 ,731 2	7.5	61. 56. 68.	4	.01
1,705,534 90.97 1,514,489 90.04 191,045 99.17	601	4 4 8 to 70	, 160 , 398	8.0 7.6	4 4 55 1 2 4 3 4 3 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5	0 0 4	ගිහිට ගිහිට
1,726,272 99.80 873,594 99.64 852,678 99.97	ထမ္တ	2 2 4 8	8,586 4,286 4,300	8.11+ 7.99+ 8.24+	6.0	. 748	4.00
422,557 99.70 183,264 99.37 239,393 99.96	F. 6.	11	1,093 2 4,901 2 6,192 2	6.18 7.01 5.56	164.3 158.0 169.3	4.290 4.256 4.316	10.58 11.40+ 9.98-
550,327 99.65 342,007 99.46 208,320 99.96	640	100	6,466 2 0,173 2 6,293 2	9.94+ 9.93+ + 66+	163.5 158.2 172.2	4.876+ 4.726+ 5.120+	10.30 10.71 9.65-
463,131 99.97 281,960 99.97 181,171 99.97	999	117	1,913 2 7,312 2 4,601 2	5.78- 6.11 5.26-	163.5 160.4 168.3	4.192 4.171 4.225	10.83 11.40+ 9.98-
290,157 99.98 66,363 99.96 223,794 99.98	999	911	1,900 2 7,214 3	1.17+ 8.68 1.90+	168.8 181.7 165.4	5.255+ 5.202+ 5.271+	10.19 10.89 9.98-

Table 2. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986 deaths per 1,000 10.01-10.40 9.43-10.97 11.51+ 10.05 9.69-10.11-8.79-10.10-10.20-9.67-9.36-9.40-9.31-10.06-10.41 9.76-9.61-8.58-9.81 10.11-10.33 10.02persons 9.38-9.74 9.98 10.62 9.80 30-day post-admission deaths Per 1,000 non-HMD enrollees 4.195 5.048+ 5.117+ 4.927+ 3.950-4.017-5.681-3.267-2.500-3.420-3.823-3.728-4.036-3.802-3.838-3.747-3.319-3.448-2.930-4.629 5.715+ 4.332 4.482 4.242 4.591 4.4504.2024.672 . 515 . 346 . 582 Per 1,000 discharges 161.3 157.5 166.9+ 171.0+ 166.3 175.0+ 156.8 153.7-163.6 164.0+ 165.1+ 159.6 163.9 158.7 166.2 164.4 163.5 166.1 161.1 161.8 160.0 163.2 181.4 157.5 156.1 133.2 160.1 64.6 61.2 65.9 000 149. 150. 143. Per 1,000 non-HMD enrollees 26.07-25.77-26.52 31.52+29.94+ 24.42-24.27-24.75-24.00-24.25-23.03-23.57-23.69-23.40-28.30 31.47+ 27.43 20.91-18.77-21.34-26-84-51-30.95+ 26.01 25.18-26.75 27.41 26.62 27.72 27.33 26.71 27.61 Discharges 28,582 17,100 11,482 2,797 670 2,127 1,176 326 850 67,740 40,363 27,377 12,889 8,399 4,490 36,024 24,752 11,272 109,633 88,492 5,946 4,585 1,361 8,908 2,696 6,212 9,919 4,516 5,403 2,342 347 1,995 Number 21,141 As percent of all enrollees 99.99.99.99.99.95 86.00 86.00 86.00 94.36 92.10 97.98 00.00 99.74 99.59 99.97 99.02 98.00 99.96 99.81 99.73 99.97 93.08 91.96 97.68 99.77 99.90 99.74 99.91 99.93 99.89 94.73 95.23 93.22 Non-HMO enrollment 2.584.974 1.570.297 1,014.677 1,468,551 1,021,156 447,395 1,200,638 720,893 479,745 321,739 100,966 220,773 415,968 268,137 147,831 378,716 180,038 198,678 .539.951 .642.859 .897.092 97,248 21,173 76,075 109,822 18,471 91,351 42,408 12,265 30,143 266,663 201,737 64,926 Number 4.6 West South Central Metropolitan Arkansas Metropolitan Metropolitan Metropolitan Metropolitan Rural Metropolitan Metropolitan Metropolitan Rural Metropolitan Rural Metropolitan Metropolitan Rural Area of residence Louisiana Oktahoma Colorado Mountain Rural Montana Wyoming Rural Rural Rural Rural Rural Texas Idaho West

See notes at end of table.

Table 2. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	deaths per 1,000 persons	9.03- 9.27- 8.84-	9.50.	7.89- 7.85- 7.98-	10.79 10.88 10.43	10.36- 10.39- 10.08-	10.23 10.31 9.96	9.92- 10.03- 9.73-	10.51 10.50 10.69	11.90 10.64 12.50	8.20- 8.27- 8.01-
mission deaths	Per 1,000 non-HMO enrollees	3.561- 2.947- 3.979	4.191 4.330 3.794	2.564- 2.566- 2.558-	5.435+ 5.339+ 5.785+	4.003- 4.060- 3.604-	3.635- 3.701- 3.437-	3.505- 3.565- 3.415-	4.174 4.182 4.036	3.454 2.773 3.794	2.876- 2.980- 2.621-
30-day post-adm	Per 1,000 discharges	163.7 149.0 172.3	164.2 166.9 156.1	134.7- 135.5- 132.6	210.5+ 206.4+ 225.7+	165.1+ 165.9+ 159.1	158.0 159.9 152.0	158.3 160.1 155.7	167.7+ 167.6+ 169.7	140.8 118.2 151.3	146.8 148.8 141.5
arges	Per 1,000 non-HMO enrollees	21.65- 19.63- 23.03-	25.47- 25.91 24.23-	19.10- 19.00- 19.37-	25.73 25.76 25.61	24.16- 24.38- 22.61-	22.96- 23.11- 22.52-	22.13- 22.28- 21.90-	24.79- 24.86- 23.73-	24.56 23.19 25.26	19.43- 19.82- 18.47-
Disch	Number	2.752 1.010 1.742	8,965 6,713 2,252	2,488 1,786 702	2,116 1,663 453	81.051 71,392 9,659	10,663 8,028 2,535	6,777 4,046 2,731	61,577 58,008 3,569	408 129 279	1,626 1,181 445
enrollment	As percent of all enrollees	92.49 85.86 97.76	91.33 89.11 98.31	ააა აააა ააა ააა ი 4 8	86.15 84.73 91.83	92.62 91.93 97.77	92.41 90.86 97.42	86.84 98.38 65	93.71 93.36 99.57	99.78 99.75 99.80	83.64 83.31 84.47
Non-HMO e	Number	125,371 51,612 73,759	348,748 257,931 90,817	128,579 93,319 35,260	81,799 64,385 17,414	3,339,313 2,921,966 417,347	461,706 346,977 114,729	303,778 181,677 122,101	2,477,248 2,330,007 147,241	16,348 5,625 10,723	80,233 57,680 22,553
	Area of residence	New Mexico Metropolitan Rural	Arizona Metropolitan Rural	Utah Metropolitan Rural	Nevada Metropolitan Rural	Pacific Metropolitan Rurał	Washington Metropolitan Rural	Oregon Metropolitan Rural	California Metropolitan Rural	Alaska Metropolitan Rural	Hawaii Metropolitan 57,680 Rural 22,553

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (P<.01). SQURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

deaths per 1,000 11.48+ 11.75 10.96 12.12+ 12.46+ 12.38+ 11.91+ 10.04 10.74 11.69+ 11.63+ persons 11.11+ 11.26 10.78 11.78+ 10.59 11.26+ 11.49+ 11.44 11.28 10.59 30-day post-admission deaths Per 1,000 non-HMO enrollees 3.744-3.828 3.849-3.470-5.230 5.230 5.3148 5.2148 5.230 5.230 3.426-6.145+ 4.543+ 5.906+ 4.571 3.418 5.137 4.412 4.566+ 4.967 5.885 4.287 Per 1,000 discharges 196.8+ 195.6+ 223.7+ 186.6+215.3 124.2-124.2-156.7-150.5-150.3-152.7 142.8 168.5 147.1 184.5 162.8 157.7 157.2 151.3 165.3 173.2 58.5 160.1 Per 1,000 non-HMD enrollees 31.38+ 31.55+ 32.29+ 28.76 31.28 30.76+ 32.23+ 24.85-25.37 25.25 24.21-24.99 27.55 27.55 28.95+ 28.75+ 29.97+ 26.45 27.02 27.06 23.31 27.86 26.93 26.77 Discharges 44,742 22,086 13,669 1,861 4,158 374 372 1,418 3,430 1,378 842 9,798 2,439 3,952 2,472 686 1,664 2,1892,256 3,606 Number 714,863 180,664 As percent enrollees 99.89 99.93 93.75 95.67 98.67 91.00 79.57 96.70 98.04 96.20 98.98 97.91 99.52 99.82 99.91 97.56 96.63 99.16 95.31 of all Non-HMO enrollment 62,781 396,761 96,911 157,139 102,964 27,613 153,209 16,035 13,464 52,846 114,752 44,397 29,738 709,478 429,794 65,540 20,281 72,225 71,185 132,332 Number 1,569,313 26,698,924 6,276,897 뮕 Lewiston-Auburn, Boston, MA New Bedford, MA Pittsfield, MA Springfield, MA Worcester, MA Area of residence New Hampshire Manchester, NH Massachusetts Bridgeport, CT Hartford, CT New Haven, CT New London, CT Portsmouth, NH Burlington, VT Rhode Island Providence, RI Connecticut United States New England Portland, ME Bangor, ME Northeast Vermont Maine

Table 3. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

See notes at end of table.

Table 3. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the ayed population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD e	enrollment	Disch	charges	30-day post-admi	ission deaths	-
		As percent		Per 1,000	er 1.00	Per 1,000 non-HMD	deaths
Area of residence	Number	; =	Number	101	discharges	- 0	erson
Middle Atlantic	4,707,584	98.68	135,922	29.02+	156.1-	4.536+	11.18+
33 44 32	13.24	0	9.5	9.0	54.		11.07+
bany	5,12	8.7	3	27.21	158.4		2.20
Binghamton, NY	35,57	9.9	86	4.5	54.	. 78	1.07
ffalo. NY	4,45	9.	6	7.0	69.	. 60	1.0
E B La NY	13,69	9.9	37	7.8	25.	. 52	ي ص
ens Falls	5,22	9.6	9	2.52	40.	. 58	0.52
ssau-Suffolk	97,14	9.8	8,89	0.13	62.	90	2.0
W YORK NY	7,47	9.5	,72	9.6	46.	. 38	ů.
agara Falls.	30,84	9.6	94	0.92	61.	96.	1.44
ande County.	0.48	8.8	9	1.72	63.	. 21	2.2
and hare ending.	7.86	4.8	4	6.6	90.	. 28	
YN Latvace	2.54	8	. 55	5.1	57.	. 94	4.0
N 000000	75.21	0	. 92	5.7	56.	.03	2.4
ca-Rome	46.733	00.00	1,297	7.9	61.	. 55	1.5
						1	
New Jersey	15	7.8	, 33	0.04	157.0	4.723+	11.58+
2	46.40	7.9	,39	0.02	99	. 02	1.,
Passaic	24	4.	, 91	8.82	51.	. 38	8.
N.	64.06	9.2	.08	2.98	52.	.01	1.49
	0	4.7	99.	9.63	54.	. 56	
0	54.64	9.5	.70	0.28	59.	.8	1.64
:	15	4.	4	0.7	55.	. 792	2.10
	38.49	7.1	.21	1.86	44.	. 58	ω. Ο
V: 0:00:01	16,382	96.17		ε.	10.	. 42	0.9
:							
Pennsylvania	1,648,180	8.7	63	8.4	58.	. 50	<u>ب</u> ا
PA	÷.	9.0	, 59	7.5	56.	. 33	· .
	6	6.	55	7.1	55.	. 16	1.4
Beaver County, PA	7	9.9	4	0.8	68	5 1	
•	'n	G.	92	4.9	52.	.05	. ·
Harrisburg, PA	å	9.9	90	6.3	. 69	44.	
Johnstown, PA	ò	9.9	00,	5.1	9 /	400	. ·
Lancaster, PA	00	9.9	1,20	9	41.	. 51	100
Philadelphia PA-NJ	6	5.8	96,	0.1	55	. 693	1.0
PA	ຕໍ	9.0	0	0.90	64.	90.	1.82
Reading, PA	ຜ	9.8	, 24	5.5	7.	9.	
Scranton, PA	à	6.	,04	2	42.	. 6	† †
Sharon, PA	ດໍ	9.9	0	9	73.		
ge,	ċ	9.9	0	0.5	9,6		, c
۵.	16,877	80.00	491	29.12	131.7	20.00 20.00 20.00 20.00 20.00	10.02
York, PA	œ.	6	N	3.1	÷ 0	. 40	
notice at end of table							

Table 3. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 per 1,000 persons 10.92 11.39 9.98 9.98 10.39 11.0.95 11.15 11.45 11.74 11.74 11.74 10.98 11.20+11.22+11.22+11.22+11.29+11.09+11.09+11.10+ 10.88 10.85 11.61 12.38 11.20 10.72 11.38 11.38 11.39 11.11 10.85+ deaths 10.60 Total 30-day post-admission deaths Per 1,000 non-HMD 44.1130 43.327 43.327 44.384 45.384 45.027 47.110 787 enrollees 4.216 Per 1,000 discharges 165.6 196.4 196.7 167.0 174.6 177.8 1173.8 1173.8 1170.7 600.1 60 163.3+ 164 - 8 - 164 - 16 159.6 Per 1,000 non-HMD enrollees 27.49+ 27.46 31.54+ 28.66+ 28.66+ 225.16 27.79 26.68 31.36 30.31+ 225.45 225.45 225.17 225.32 225.36 227.69 223.90 223.90 221.34 24.65 26.95 26.71 26.71 26.72 26.72 28.85 27.89 27.89 30.46 26.44-26.56 Discharges 34,541 22,060 1,264 6,982 23,0872 2,586 7,18 7,18 1,127 1,20 1,20 5,193 199 199 1,530 3,239 2,57 2,57 2,57 7,96 4,76 378 350 350 458 777 313 1,306 1,306 745 33,927 182,506 125,715 Number 16, As percent of all enrollees 999.46 9999.46 9999.99 9999.99 9999.99 9999.99 9999.99 9999.99 9999.99 9999.99 997.86 999.83 999.92 995.92 997.77 993.81 999.93 999.93 96.39 97.76 Non-HMD enrollment 1,263,869 51,895 159,407 242,585 121,377 103,547 103,547 19,579 26,009 19,579 27,240 15,230 21,934 70,660 17, 198 17, 198 17, 198 15, 647 34, 565 61, 160 118, 407 10, 842 113, 759 113, 759 19, 585 ,265,011 30,946 12,672 13,391 608,135 15,992 28,047 12,020 36,099 43,549 28,351 24,799 Number 6,901,975 4,745,430 Akron, OH
Canton, OH
Cincinnati, OH-KY-IN
Cleveland, OH
Dayton, OH
Hamilton, OH
Lima, OH
Lorain-Elyria, OH
Mansfield, OH
Steubenville, OH-WV Bloomington, IN
Eikhart-Goshen, IN
Eikhart-Goshen, IN
Fort Wayne, IN
Gary-Hammond, IN
Indianapolis, IN
Kokomo, IN East North Central Aurora-Elgin, IL Bloomington, IL Champaign, IL Chicago, IL Decatur, IL Area of residence South Bend, IN Terre Haute, IN Lake County, IL Springfield, IL Youngstown, OH Lafayette, IN Muncie, IN North Central Anderson, IN Kankakee, IL Rockford, IL Peoria, IL Illinois Foledo, DH Indiana 0110

Table 3. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

4	deaths per 1,000 persons	0.7.0	0000	0 33 4	10.31 10.21 10.24 10.81	-0-000 	10.09- 9.91- 10.83 10.62 9.88 8.29-	9.78- 10.46 10.38 11.05 9.52 9.75
ssion deaths	Per 1,000 non-HMD enrollees	86.89	. 66	3.5986 3.5986 3.2992 3.979	4 8 9 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	68	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
O-day post-admi	Per 1,000 discharges	61. 64.	440	1158 1128 1288 1489 1489 1589 1589 1589 1589 1589 1589 1589 15	165.0 182.0 182.5 182.5 125.6	86. 77. 77. 81. 94.	151.4- 157.3 186.3 166.3 161.0	138.6- 184.4 119.5- 191.1 191.5- 135.7
arges 3	Per 1,000 non-HMD enrollees	UWL	4040	24.29 23.36- 25.83 6.73	22222 2228 2388 2388 23	~ E & & & & & & & & & & & & & & & & & &	26.17- 24.20- 25.93- 23.72- 26.30	24.65- 27.76 21.22- 25.59 25.73
Disch	Number	F 8 6 4	12007	517 751 488 1,122	15,382 4 4 9 8 9 4 5 5 3 3 3 7 3 3 7	852411	56,791 9,640 769 3,282 245 270	10,024 463 1,223 240 240 173 503
enroliment	As percent of all enrollees	8. T. 8.	, 4 C 4 0	999 990 990 980 980 980 980 980	0 10 0 0 0	on ► < < o < o < o < o < o < o < o < o < o	93.50 77.30 76.74 64.45 99.67	00000000 00040000 000000 0000000 0000000
Non-HMD e	Number	982,444 17,760 16,831	448,826 43,084 44,084	21,512 32,460 18,957 42,162	611,044 34,044 16,953 19,185 16,529 14,291	00.00 00	2,156,545 397,258 29,977 141,769 9,393 12,248	404,057 19,323 44,645 40,067 11,460 15,951 19,521
	Area of residence	Michigan Ann Arbor, MI Battle Creek, M	Bencon Harbor, MI Detroit, MI Flint, MI Grand Rapids, MI	Jackson, MI Kalamaro, MI Lansino, MI Muskegon, MI Saginaw, MI	(0 - 1		West North Central Minnesota Duluth, MN-WI Minneapolis, MN-WI Rochester, MN St. Cloud, MN	Iowa Cedar Rapids, IA Davenport, IA-IL Des Moines, IA Dubuque, IA Iowa City, IA Sioux City, IA-NE Waterioo, IA

Table 3. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 persons 10.62 11.35 10.89 9.51 11.79 10.26 12.11+ 12.71+ 10.67 9.65 12.19+ 9.57-9.50 9.52 9.13 9.86-9.70 9.63 0.08 13.36+ 10.15 12.67 10.70 9.98-10.21 11.61 10.39-0.56 Total 30-day post-admission deaths Per 1,000 non-HMO enrollees 4.532 4.851 4.902 3.325 828 4.267 5.343 4.162 4.524 3.820 4.031 4.622 3.953 3.799 3.946 3.697 4.316 4.019 3.797 2.869-3.854 569 848 575 .303 4.260 4.331 4.0.4 Per 1,000 discharges 1533.6 1866.9 1400.0 1555.0 1555.0 156.2 163.7 156.5 144.8 143.6 148.0 144.1 180.5 132.0 155.7 56.8 64.2 64.1 59.8 57.2 57.2 85.9 50.3 61.2 တက 143. Per 1,000 non-HMO enrollees 27.79+ 23.54 28.74 29.70+ 27.39 26.27 31.72+ 32.33 34.80+ 25.19-22.52-27.53 25.67 23.01 21.60-23.36-28.89+ 30.98+ 26.43 21.80-27.87 32.21 26.42 26.29 26.97 26.60 27.37 27.44 26.93 Discharges 18,278 201 553 4,568 8,057 726 12,495 7,507 448 315 2,446 264 377 151 3,109 233 461 5,349 470 1,572 7,945 114 409 1,060 1,906 1,738 Number 242,060 25,734 As percent of all enrollees 998.17 999.98 995.95 997.97 997.97 98.52 98.50 95.39 98.28 95.13 96.57 999. 999. 999. 95.82 87.78 97.26 88.57 99.94 99.75 97.94 96.31 enrollment Non-HMO 307,796 4,965 18,983 45,844 655,875 8,560 19,275 154,919 13,630 283,167 27,676 85,433 8,160 14,138 5,687 96,216 7,152 13,275 209,910 20,994 57,609 436,606 244,878 17,051 14,522 66,196 261,121 70,251 58,114 Number 4,668,855 980,101 District of Col. Washington, DC-MD-VA Wilmington, DE-NJ-MD Columbia, MO Joplin, MO Kansas City, MO-KS St. Joseph, MO St. Louis, MO-IL Springfield, MO Cumberland, MD-WV Hagerstown, MD Area of residence Bismarck, ND Fargo, ND-MN Grand Forks, ND South Dakota Rapid City, SD Sioux Falls, SD South Atlantic North Dakota Nebraska Lincoln, NE Omaha, NE-IA Lawrence, KS Topeka, KS Wichita, KS Baltimore, MI SSOUF! Delaware Maryland Kansas South

See notes at end of table.

Table 3. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

10	deaths per 1,000	4.0	11.11 12.75+ 12.17+ 10.20	10.94 11.17 10.71 11.18	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 233 . 4. 33 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10.34 11.19 14.44 12.09 1.09 1.09 1.09	10.69 10.10 11.13.44 11.25.11 10.25.4
-admission deaths	Per 1,000 non-HMO enrollees	. 57	4 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6	4.881+ 5.553+ 7.763 5.876+	3.3.3.064- 3.022- 4.065- 2.780-	040	4.895+ 5.286+ 7.02 7.531 7.028	4444688 444688 44688 4468 4468 4468 446
30-day post-adm	Per 1,000 discharges	76. 87. 75.	183.9 180.0+ 163.8	93 93 93	180.5 160.2 201.4 1718.6	3632	169.9 174.4 154.2 178.2 152.2	161.8 154.8 165.0 167.7 137.8 134.8
harges	Per 1,000 non-HMD enfollees	7.	25.51 31.10+ 27.24 24.62	0.47.00	21.33- 20.38- 19.01- 20.13- 19.04-	20.40	28.95+ 29.94 30.76+ 27.91 31.33 26.59	27.58 31.57 27.81 27.99 21.36- 22.86-
Disch	Number	0 0 0	3,135 2,293 747	00000	14, 53 2, 249 2, 249 2, 249	111 16 29	9,385 1,036 1,036 1,726	15,286 287 371 5,437 406 578 643
enroliment	As percent of all enrollees	0.00 0.00	. ന ശ യ യ . ന ന ന ന . ന ന ന ന . ന ന ന ന		# C O O O O O O O		44.000.000.000.000.000.000.000.000.000.	00000000000000000000000000000000000000
Non-HMD e	Number	6,13 2,02 5,53	18,110 102,601 85,698	4,4 0,5 0,5 0,5 0,5 0,5 0,5 0,5 0,5 0,5 0,5	689,138 24,138 14,569 109,337 13,388	65, 4 86, 4 86, 6 86, 6	329,020 16,583 34,246 35,361 11,195 65,893	561,716 9,292 13,510 189,539 22,938 25,929 25,328
	Area of residence	Virginia arlottesv	-> >	WE SET OF	North Carotina Asheville, NC Burlington, NC Charlotte, NC Fayetteville, NC Greensboro, NC	Hickory, NC Jacksonville, NC Raleigh-Durham, NC Wilmington, NC	South Carolina Anderson, SC Charleston, SC Columbia, SC Florence, SC Greenville, SC	Georgia Albany, GA Athens, GA Atlanta, GA Augusta, GA-SC Columbus, GA-AL Macon, GA

Table 3. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 persons 10.58 11.39 11.62+ 10.33 10.30 10.38 10.38 9.68 9.68 10.13 12.19+ 9.73-10.49 Total 30-day post-admission deaths Per 1,000 non-HMD enrollees 4.876+ 4.292 5.035 4.519 4.537 5.330 4.792 .614+ 4.290 3.473 4.078 Per 1,000 discharges 64.7+ 64.3 43.1 55.2 48.3 63.5 60.3 60.3 79.6 64.2 50.4 Per 1,000 non-HMD enrollees 28.08+ 25.84+ 22.12-20.12-20.75+ 20.60-25.08-31.87+ 31.87+ 26.25-26.97-26.97-26.97-26.97-27.56-27.55-27 29.94 233.13 225.28 29.35 29.35 29.35 46 44 58+ 28.11+ 26.18 24.29 26.29 28.00 Discharges 16,466 1,465 358 333 1,387 2,077 2,856 2,764 746 2,794 286 Number 18,586 11,093 As percent enrollees 990.97 999.68 910.99 999.68 999.58 999.75 999.75 999.75 999.75 999.75 999.75 999.75 99.70 98.87 99.20 99.80 of all Non-HMO enrollment 42,906 62,616 181,839 61,428 10,198 10,198 16,758 80,895 45,495 46,501 168,501 168,502 23,495 407 71,817 11,817 12,97 17,414 139,729 550,327 50,061 12,541 10,064 55,068 70,970 88,836 422,657 31,008 107,485 10,319 Number 1,726,272 ,705,534 Fort Lauderdale, FL Fort Myers, FL Fort Pierce, FL FT. Walton Beach, FL Gainesville, FL Chattanooga, TN-GA Clarksville, TN-KY Jackson, TN Johnson City, TN-VA Knoxville, TN Memphis, TN-AR-MS Nashville, TN East South Central West Palm Beach, FL Lakeland, FL
Melbourne, FL
Miami-Hialeah, FL
Ocala, FL
Orlando City, FL
Panama City, FL
Pensacola, FL Louisville, KY-IN Owensboro, KY Bradenton, FL Daytona Beach, FL Area of residence Tallahassee, FL Lexington, KY Tennessee Kentucky ampa, FL Florida

See notes at end of table.

Table 3. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1985

4	deaths per 1,000 persons	10.83	1.5	0.3	න (ක	2.2	7.7	0 .	4.4		10.19	1.5	0.5	o. O	10.01-	10.11-	1.3	9.4	4	ත ත	10.97	4.	1.2	4.0	1.4	1 00	4.00	9.0	7.70	10.06-	ထ္၊	8.7	N	χ. Ο	
ission deaths	Per 1,000 non-HMD enrollees	4 . 192 5 8 8 8	. 10	. 13	. 58	90.	90.	. 47	. 85	90	5.255+	.031	. 49	.30	4.195	4.482	. 02	.34	. 18	. 93	5.048+	.47	.41	. 58	144	. 95	.637	. 24	. 332	4.450	.07	. 19	80	8	
30-day post-admi	Per 1,000 discharges	163.5	63.	58.	76.	50.	46.	53	28	. 99	168.8	07.	S	. 60	161.3	63.	77.	163.9	57.	47.	164.4	63	45	75	64	9 /	47	62	8	171.0+	52.	61.	2	87.	
arges	Per 1,000 non-HMD enroliees	5.7	25.24	6.2	6.0	7.2	ب ص	9.2	5 . 5	€.		9.0	28.55	0.1	26.07-	7.3	2.9	26.68	6.4	6.8	0.9	7.4	4.0	2.4	5.1	34.03+	8.5	2.43	დ ი	6.0	6.7	9.9	25.17	5.7	
Disch	Number		2,721	33	3	8	48	1	2	_	9-1	52	1,006	25	67,740	0	27	572	3	29	ထ	37	9	43	9	529	26	₩.	90,	9,919	22	16	2,223	,81	
enroliment	As percent of all enrollees	6.0	- 00 00 00 00 00 00 00	G.	ο,	9.9	δ.	9.9	σ.	9.9	o,	9.9	9.9	99.88	99.74	o,	σ,	9	9.9	86.65	0	6	6	0	6.	96.66	δ.	6.6	o.	0	o,	6.	97.45	7	
Non-HMD e	Number	463,131	13,124	12,690	16,687	14,295	17,137	50,513	29,832	13,604	0.15	18.07	330	8,556	2,584,974	~	\sim		10	11,012	9.			. 5	2,0	16,436	1,6	3,7	ຜູ	378,716	8,215	8,221	88,646	71,032	
	Area of residence	9	Anniston, AL Birminaham, Al	AL.		Gadsden, AL	Huntsville, AL			Tuscaloosa, AL		Biloxi-Gulfport, MS	ackson MS	Pascagoula, MS	West South Central	Newscent	Fakettek: 1 e. AR	Fort Smith. AR-DK	Little Rock, AR	Pine Bluff, AR		Alexandria: LA	Baton Rouge, LA	Houma-Thibodaux, LA		Lake Charies, LA	Monroe, LA	New Orleans, LA	Shreveport, LA	Oklahoma	Enid. OK	Lawton, DK	Oklahoma City, OK	Tulsa, OK	

Table 3. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 persons 9.61-8.58-0.10 9.36-9.38-9.58 9.87 9.98 10.05 11.37 Total 30-day post-admission deaths Per 1,000 non-HMD enrollees 3.267-2.500-3.802-4.629 5.221 6.369 4.515 4.138 4.505 3.950. Per 1,000 discharges 164.0+ 163.2 170.6 194.7 164.6 152.3 168.2 33.2 161.1 Per 1,000 non-HMO enrollees 20.91-18.77-24.00-23.57-28.30 30.47 32.79 27.41 26.78 26.50 Discharges 2,797 1,176 143 183 189 541 422 496 2,342 Number 109,633 28,582 As percent of all enrollees $\begin{array}{c} \mathbf{0} \\ \mathbf{$ 99.90 99.88 99.91 99.77 93.08 94.36 99.91 99.91 99.96 Non-HMD enrollment 13 100 19 063 47,578 42,323 12,486 20,169 20,169 97,947 172,118 37,947 19,376 19,376 19,376 11,213 17,169 11,213 11,213 11,213 14,532 14,532 11,213 1 97,248 12,097 9,076 109,822 42,408 5,379 6,886 ,200,638 Number 4,539,951 1,468,551 Lubboview, TX
Lubboview, TX
McAllen, TX
Midland, TX
San Angel TX
San Antonio, TX
Sherman-Denison, TX
I exarkana, TX-AR Daryan, TX Corpus Christi, TX Dallas, TX Fort ¥corth, TX Galveorth, TX Houston, TX Killeen-Temple, TX Laredo, TX Waco, TX Wichita Falls, TX Beaumont, TX Brazoria, TX Brownsville, TX residence 늘 Boise City, ID Amarillo, TX Austin, TX Billings, MT Great Falls, Victoria, TX Cheyenne, WY Wyoming Casper, WY Tyler, TX Mountain Montana Idaho Area of West

See notes at end of table.

Table 3. All cancers: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

the aged po	בי ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה ה	nsus region and	division, Stat	e, and metro	Politan statisti	ical area: Unit mission deaths	ed States, 198
	E E	As per of a	L	g 0	Per 1,000 discharges	Per 1,000 non-HMD enrollees	Total deaths per 1,000
	266,663 15,143 12,629 119,624 11,610 15,372	94.73 95.09 95.03 99.10 99.62	5,946 2,13 2,782 3,72 2,51 3,55	22.26- 20.81- 20.77- 23.47- 24.43- 21.30- 22.92	149.2 117.2 146.9 165.1 179.9	8 2 2 2 2 2 2 3 3 2 3 3 3 3 3 3 3 3 3 3	20.00 20.00
	125,371 33,783 9,375 8,454	92.49 81.01 99.94 93.66	2,752 634 216 160	21.65- 18.98- 22.66 18.78-	162.2 110.8 148.3	3.561- 3.090- 2.550- 2.829	9.03- 9.73 7.70- 8.84
	348,748 187,381 70,550	91.33 86.74 96.06	8,965 5,011 1,702	25.47- 26.66 23.92-	64. 68. 62.	9 4 9 0 9	r. 4 r.
	128,579 16,076 77,243	999 999 99.99 99.99	2,488 1,498	19.10- 17.60- 19.29-	134.7- 161.1 130.6-	2.564- 2.835- 510-	7.89- 7.79- 7.87-
	81,799 45,252 19,133	86.15 82.98 89.17	2,116 1,241 422	25.73 27.36 21.99-	210.5+ 220.0+ 167.1	5.435+ 6.034+ 3.709	0.0
	3,339,313	92.62	81,051	24.16-	165.1+	4.003-	10.36-
	461,706 13,629 15,439 14,254 12,559 159,828 41,237 50,245 17,048	992 999 999 999 999 999 999 999 999 999	10,663 321 339 339 339 268 3,881 1,001 1,001 602	22.96- 23.27 23.27 23.71 21.185- 22.27 20.96- 20.96-	158 1725 1725 1725 1745 1745 1745 1765 1765 1765 1765 1765 1765 1765 176	3.635- 2.041- 2.743- 3.774- 3.380- 4.029- 4.	10 . 23 9 . 89 10 . 26 10 . 40 10 . 62 10 . 50 10 . 50
	303,778 28,947 20,326 99,155	86.84 88.67 99.78 90.39	6,717 589 2,232 776	22.13- 20.19- 21.72- 22.75- 23.06-	158.3 150.0 222.7+ 157.8	3.505- 4.031- 4.831 3.576- 3.226-	9.92- 10.71 9.78 10.28 8.60-

deaths per 1,000 10.51 10.57 10.27 10.32 10.93 10.93 10.93 10.31 11.36 11.36 11.36 11.36 11.36 11.36 11.36 11.36 11.36 11.36 11.36 11.36 11.36 8.20-8.27persons 11.90 Total 30-day post-admission deaths Per 1,000 enrollees 842 536+ 2.876-2.980non-HMO 378-.140 -.174 .335 .412 .829 080 .017 915 528 887 3.454 Per 1,000 discharges 140.8 118.2 146.8 148.8 Per 1,000 non-HMD enrollees 26.64 223.40 221.611-223.39 28.31 28.31 25.25 25.25 25.47-25.47-20.98-22.54-21.07-19.43-19.82-25.76 21.98-21.07-24.16 23.19 Discharges 1,302 17,958 319 1,359 510 4,905 1,626 4,286 4,414 3,044 866 527 095 919 759 673 408 733 047 4,1622,199 Number 61,577 As percent enrollees 93.71 89.39 99.76 99.78 83.64 of all Non-HMD enrollment 98. 58,425 677,939 1883,462 1883,619 149,258 177,486 120,246 120,246 120,273 163,7402 163,758 24,640 44,775 40,855 35,778 5,625 80,233 57,680 811 .021 2,477,248 27,102 Number 67,171 Anaheim-Santa Ana, CA Merced. Modesto. CA Dakland. CA Dakland. CA Redding. CA Riveresito. CA Salinas. CA Salinas. CA San Diego. CA San Diego. CA San Lose. CA San Cruz. CA CA Area of residence Bakersfield, CA Stockton, CA Vallejo, CA Visalia, CA Yuba City, CA Anchorage, AK Los Angeles, California Fresno, CA Chico, CA Alaska Hawaii

Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total population, by census region and division, State, and metropolitan statistical area: United States, 1986

death rate for the aged

All cancers:

Table 3.

the Medicare Statistical System. sex. A (+) or (-) indicates organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicate is significantly greater or less than the U.S. rate (P<.01).
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical SyPopulation death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (Population). Only aged Medicare enrollees who did not have end stage renal disease and were not

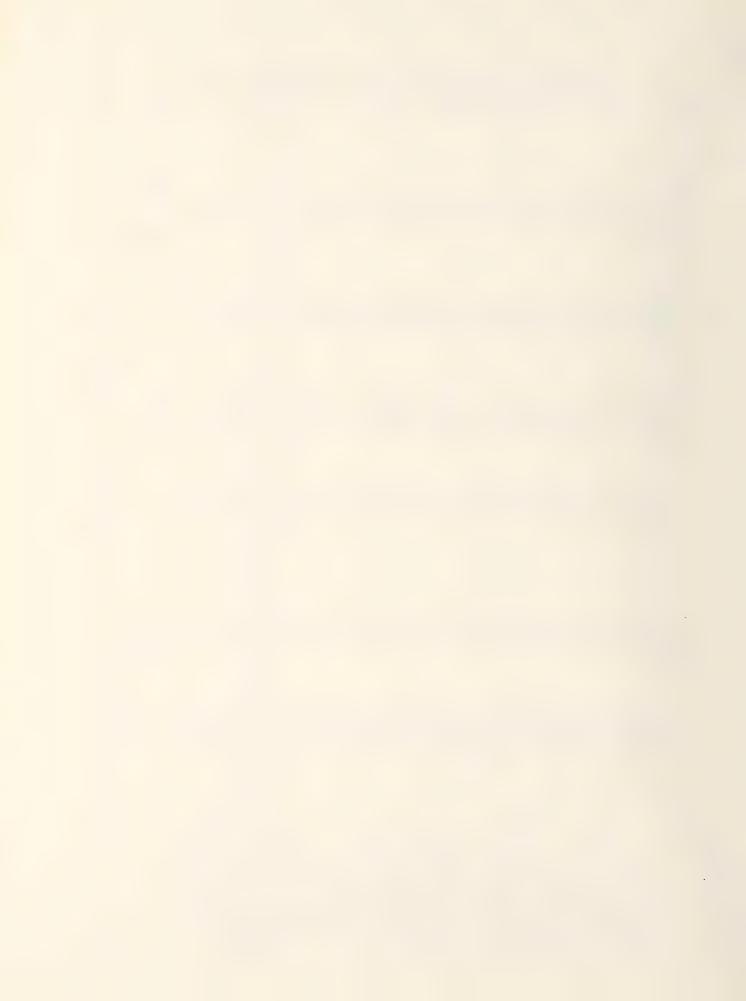
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Honolulu,

health maintenance

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Malignant neoplasms of digestive organs and peritoneum

In 1986, cancer was the second leading cause of death for aged Medicare enrollees. Cancer of the digestive organs and peritoneum accounted for 27 percent of all cancer deaths among the Medicare aged. The death rate from this type of cancer was 2.88 deaths per 1,000 aged persons in the general population (Table 1).

There were 180,592 hospital discharges with a principal diagnosis of cancer of the digestive organs or peritoneum, for a rate of 6.76 discharges per 1,000 aged Medicare enrollees. The 30-day post-admission mortality rate was 190.9 per 1,000 discharges, or about 19 percent.

Age and sex patterns

Combining all age groups, the discharge rate was about 35 percent greater for men than for women (8.02 discharges per 1,000 enrollees for men and 5.92 for women). For this type of cancer, the discharge rate per 1,000 enrollees increased substantially from the age group 65–74 years (5.72 discharges) to the next age group, persons 75–84 years (8.34 discharges). The rate for persons 85 years or over (8.36) was virtually the same as that for the middle age group.

For each of the three mortality rates shown, men had substantially higher death rates for cancer of the digestive organs and peritoneum than women had. For example,

NOTE: Malignant neoplasms of digestive organs and peritoneum is ICD-9-CM codes 150-159, 197.4*, 197.6*–197.8*. Codes with asterisks are not used for coding underlying cause of death.

the rate of total deaths per 1,000 persons in the age group 65-74 was 65 percent greater for men than for women (2.68 versus 1.62).

Patterns by race

Discharge rates for cancer of the digestive organs and peritoneum were slightly higher for black persons than for white persons in all age and sex groups. For example, the discharge rate in the age group 65-74 years was 7.65 discharges per 1,000 enrollees for black men versus 6.71 for white men. The discharge rates for women aged 85 years or over were 8.09 and 7.55 for black and white persons, respectively.

Population mortality (deaths per 1,000 aged persons) was higher for black than white persons for all age and sex groups. Differences were most pronounced for the younger age groups. In the age group 65–74 years, the mortality rate was 3.77 deaths per 1,000 persons for black men versus 2.59 for white men and 2.18 deaths per 1,000 for black women versus 1.57 per 1,000 for white women.

Thirty-day post-admission mortality per 1,000 discharges was higher among black than white persons across all age and sex groups. For example, among men aged 65-74 years, there were 222.9 deaths per 1,000 discharges for black persons and 182.9 per 1,000 discharges for white persons. For black women aged 85 years or over, there were 269.8 deaths per 1,000 discharges, versus 226.2 per 1,000 among white women that age.

Variation by geographic area

Tables 2 and 3 contain data on utilization and mortality by geographic area. The tables are broken out by U.S. census region, division, and State. Data on metropolitan and rural areas within each State are shown in Table 2, whereas data at the metropolitan statistical area (MSA) level are shown in Table 3. Figures 1–3 were derived from the data in these tables.

Discharge rates

The variation in discharge rates across the Nation is shown in Figure 1. The States with the highest hospital discharge rates for this kind of cancer were in the Northeast section of the United States, along with Louisiana, Mississippi, and South Dakota. The highest rate was 8.53 discharges per 1,000 enrollees in Massachusetts. The lowest rates, as with all cancers, tended to be in the West. The State with the lowest rate was Utah, with 4.41 discharges per 1,000 enrollees.

The variations across and within census divisions can be seen from the boxplots in Figure 2. The Mountain Division had the lowest median rate, although there was one high outlier in this division. The highest median rates were in the New England and Middle Atlantic Divisions.

The variation among MSAs with respect to hospitalization for this type of cancer was relatively low. The coefficient of variation was only 0.15, the lowest of any diagnostic

category in this compilation except all cancers and fracture of the neck of the femur.

Population death rates

As shown in Figure 3, the highest population mortality rates (deaths per 1,000 aged persons) were in the Northeast area of the United States as well as Illinois and Ohio, consistent with the high rate of hospital discharges in those areas. The lowest population mortality generally occurred in the West, with the exception of California.

Correlations between rates

Pearson correlation coefficients were computed between sets of rates for MSAs and rural areas within States. Discharges per 1,000 enrollees and 30-day post-admission deaths per 1,000 discharges were uncorrelated (r = -0.04). Discharges per 1,000 enrollees were positively correlated with deaths per 1,000 persons (r = 0.54). To the extent that population mortality reflects the underlying level of this disease, high hospitalization rates would be expected in areas of high population mortality as a result of greater numbers of people seeking treatment.

Urban-rural patterns

Nationwide, discharge rates for malignant neoplasms of the digestive organs and peritoneum were slightly higher in urban than rural areas (6.90 per 1,000 discharges versus 6.40), and 30-day post-admission deaths per 1,000 discharges were higher in rural than urban areas (196.5 deaths per 1,000 discharges versus 189.0 deaths per 1,000 discharges). These patterns held true in most of the census divisions. Nationwide, deaths per 1,000 aged persons in the general population were higher in urban areas than in rural areas (2.98 versus 2.64), and this pattern held true in seven of the nine census divisions.

Table 1. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by age, sex, and race: United States, 1986

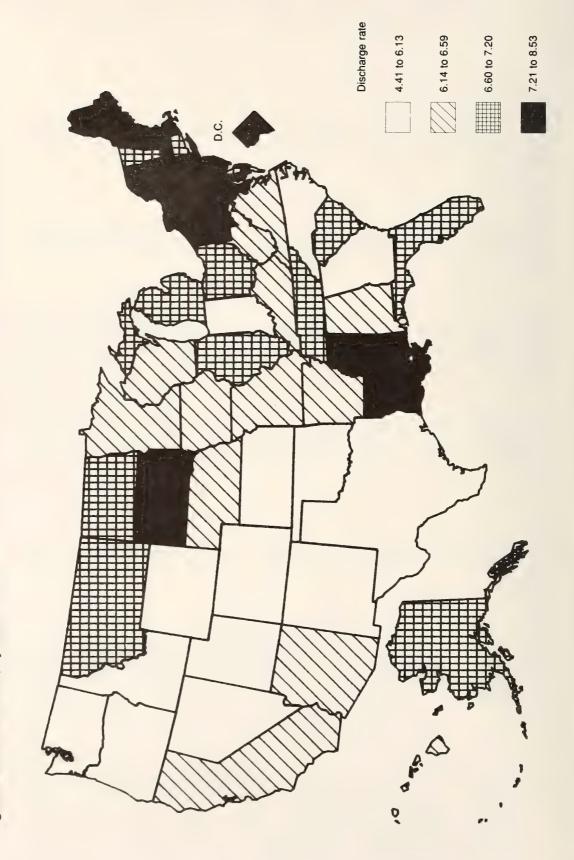
4	deaths per 1,000	5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00		2.0.4 4.0.6 2.00.2 2.00.2 2.00.2	2.83 2.02 3.57 5.33	. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	2.42 1.57 2.97 4.82	. 6. 4. 7. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	4.54 3.77 7.02	2.92 2.96 8.90 88
mission deaths	Per 1,000 non-HMD enrollees	1.29 1.64 2.00 2.00	1.63 2.22 2.44 74	1.07 0.81 1.30 1.73	1.27 0.98 1.60 1.98	1.59 1.23 2.20 2.71	1.05 0.79 1.27 1.71	1.68 2.036 2.096	2.08 1.71 2.66 3.22	1.42 1.10 2.18 1.18
30-day post-adm	Per 1,000 discharges	176.1 196.1 239.2 4.2	202.6 186.1 215.3 259.7	165.4 180.5 228.9	188.5 173.7 193.5 236.8	199.7 182.9 212.4 257.4	178.5 163.8 178.0 226.2	220.7 204.7 227.5 271.9	235.7 222.9 245.7 275.4	207.9 187.0 213.4 269.8
arges	Per 1,000	88.27.0 3.34	8 .02 10.80 10.40	. 4 4 5	85.66 36.28 36.38	7.96 6.71 10.36		7.62 6.63 9.15 16	8.81 7.65 10.84 11.69	6.83 5.87 8.16 8.09
Discha	Number	180,592 92,588 66,968 21,036	85.476 47.994 30.293 7.189	95,116 44,594 36,675 13,847	158,192 80,415 59,111 18,666	74,765 41,754 26,682 6,329	83,427 38,661 32,429 12,337	15,180 8,049 5,340 1,791	6,989 3,974 2,336 679	8,191 4,075 3,004 1,112
nrollment	As percent of all enrollees	996.33	96.01 95.90 96.02 97.22	97.16 96.66 97.51 98.74	9 66	00000 2000 2000 4000 4000	94.07 96.55 97.42 98.69	997.86 997.54 99.11	97.28 97.58 97.67	98.10 97.74 98.37 99.26
Non-HMD e	Number	26,698,924 16,162,594 8,020,447 2,515,883	10,650,991 7,056,445 2,912,366 682,180	16,047,933 9,106,149 5,108,081 1,833,703	23,574,066 14,207,064 7,134,499 2,232,503	9,391,016 6,216,472 2,573,989 600,555	14,183,050 7,990,592 4,560,510 1,631,948	1,991,943 1,213,014 583,429 195,500	792,788 519,305 215,401 58,082	1,199,155 693,709 368,028 137,418
	Age, sex, and hace	< <	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over	White 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over	Black 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over

(1)Includes persons of other races in addition to white and black persons.

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.

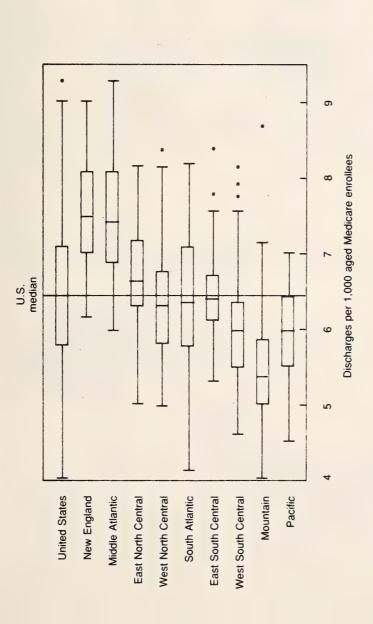
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Figure 1. Malignant neoplasms of the digestive organs and peritoneum: Short-stay hospital discharges per 1,000 aged Medicare enrollees, by State: 1986



NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

Figure 2. Malignant neoplasms of digestive organs and peritoneum: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by division: United States, 1986



Outliers for	Outliers for discharges per 1,000 enrollees	rollees
Area	Rural or metropolitan statistical area	Rate
United States	Niagara Falls, NY	9.28
West North Central	Sioux Falls, SD	8.37
East South Central	Rural counties, MS Memphis, TN-AR-MS	7.79 8.39
West South Central	New Orleans, LA Lake Charles, LA Baton Rouge, LA	7.76 7.93 8.15
Mountain	Great Falls, MT	8.69
SOURCE: Health Care Management and Strate	SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.	of Data tical System.

Figure 3. Malignant neoplasms of digestive organs and peritoneum: Deaths per 1,000 aged population, by State: 1986

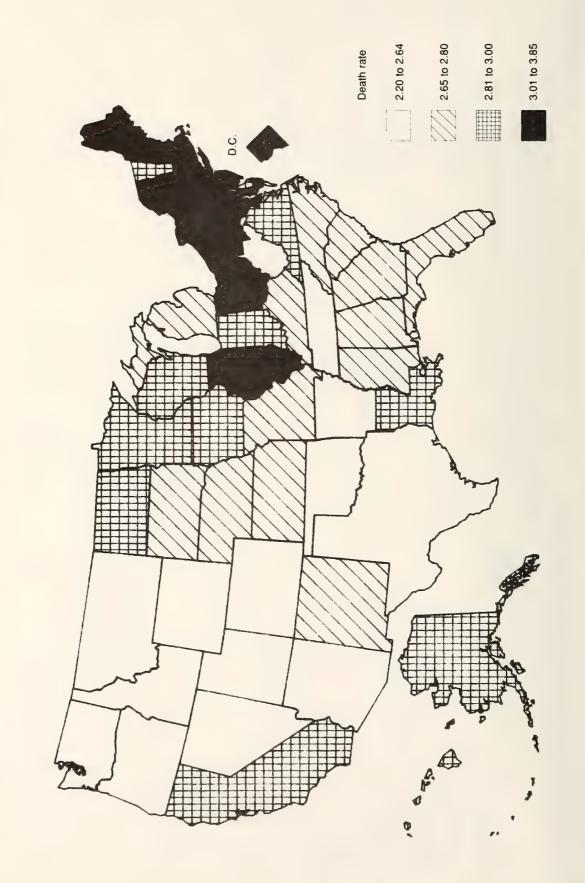


Table 2. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enroliment	Discha	arges	30-day post-adm	mission deaths	4:
		Percen		er 1,00	Per 1,000	non-HMO	deaths
Area of residence	Number	_	Number	0	SC 11 2 1 9 e	0	000
United States Metropolitan Rural	26,698,924 19,363,284 7,335,640	96.70 95.80 99.16	180,592 133,254 47,338	6.76 6.90+ 6.40-	190.9 189.0	1.291 1.305 1.255-	2.89 2.98+ 2.64-
Northeast Metropolitan Rural	6,276,897 5,564,648 712,249	98.04 97.84 99.69	48,753 43,471 5,282	7.79+ 7.84+ 7.39+	185.0- 184.6- 188.3	1.441+ 1.448+ 1.386	3.31+
New England Metropolitan Rural	1,569,313 1,342,886 226,427	96.20 95.66 99.53	12,431 10,677 1,754	7.93+ 7.97+ 7.69+	181.7 180.2- 191.1	1.442+1.437+	3.30+
Maine Metropolitan Rural	153,209 82,345 70,864	88.000 0000 0000	1,167 572 595	7.56 6.93 8.30+	183.8 185.5 182.3	1.389 1.282 1.513	3.27 3.03 5.03 5.44
New Hampshire Metropolitan Rural	114,752 74,135 40,617	98.98 98.55 99.77	956 642 314	8.33+ 8.68+ 7.69	220.5 219.5 222.6	1.851+ 1.911+ 1.742	
Vermont Metropolitan Rural	62, 781 10, 422 52, 359	000000000000000000000000000000000000000	438 78 360	6.93 7.48 6.82	220.6 251.5 213.8	1.924	2.99
Massachusetts Metropolitan Rurał	709,478 659,025 50,453	93.75 93.40 98.58	6,050 5,640 410	8 8 8 . 5 5 4 + 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	187.5 189.2 164.3	1.598+ 1.620+ 1.303	3.30 3.30 3.30 3.30 3.30 3.30 3.30 3.30
Rhode Island Metropolitan Rural	132,332 132,332 0	97.59 97.59 0.00	1,045	7.93+7.93+0.00	144.3-	1.155	3.37+
Connecticut Metropolitan Rural	396,761 384,627 12,134	97.56 97.50 99.66	2,775 2,700 75	7.02 7.05 6.18	162.9- 162.9- 161.2	1.148-0.988	3.13+
Middle Atlantic Metropolitan Rural	4,707,584 4,221,762 485,822	98.68 99.55	36,322 32,794 3,528	7.74+ 7.80+ 7.25+	186.1 186.0 186.9	1.440+ 1.451+ 1.348	8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
New York Metropolitan Rufal	2,143,249 1,922,371 220,878	98.98 98.89 99.75	16,620 15,018 1,602	7.73+7.79+	184.2 183.5 191.2	1.428+ 1.438+ 366+	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
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short-stay hospital discharges, and post-admission Table deaths metrop

etropolitan and here coesties:	U = 1	s, 1986					
	Non-HMO e	enroliment	Disch	arges	30-day post-adm	mission deaths	4
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
New Jersey Metropolitan Rural	916,155 916,155 0	97.84 97.84 0.00	7,288	8.02+ 8.02+ 0.00	191.7 191.7 0.0	1.538+ 1.538+ 0.000	3.31+ 0.00
Pennsylvania Metropolitan Rural	1,648,180 1,383,236 264,944	98.75 98.56 99.78	12,414 10,488 1,926	7.59+ 7.65+ 7.29	185.4 185.8 183.4	1.403+ 1.417+ 1.332	3.15+ 3.21+ 2.83
North Central Metropolitan Rural	6,901,975 4,398,761 2,503,214	96.39 95.22 98.51	46,447 30,217 16,230	6.71 6.90 6.38-	191.4 193.5 187.4	1.281 1.332 1.193-	2.92 3.03+ 2.71-
East North Central Metropolitan Rural	4,745,430 3,453,558 1,291,872	97.76 97.13 99.47	32,457 23,998 8,459	8.00 8.00 9.00 0.00 0.00	190.8 194.0 181.7	1.305	2.99+ 3.08+ 2.75-
Ohio Metropolitan Rural	1,263,869 987,528 276,341	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6,855 6,972 1,883	7.05 7.13+ 6.79	186.5 191.4 168.7	1.313 1.363 1.137	3.03+ 3.11+ 2.76
Indiana Metropolitan Rural	623,062 399,457 223,605	97.86 97.01 99.41	3,810 2,514 1,296	6.13- 5.33	196.0 202.6 183.2	1.199 1.282 1.050-	0 .0 8 0 .0 9 0 0 .0 8
Illinois Metropolitan Rural	1,265,011 952,934 312,077	95.90 94.73 99.68	8,936 2,845 091	7.07+ 7.22+ 6.62	192.4 194.4 185.7	1.359 1.403+	3.15+ 3.29+ 2.71
Michigan Metropolitan Rural	982,444 744,347 238,097	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6,793 5,217 1,576	6.95 7.07 6.60	186.0 187.1 182.3	1.291 1.318 1.208	2.80
Wisconsin Metropolitan Rural	611.044 369,292 241.752	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,063 2,450 1,613	66.55 56.55 56.55 56.55	199.5 206.2 189.4	1.316 1.367 1.239	2.94 3.00 2.86
West North Central Metropolitan Rural	2,156,545 945,203 1,211,342	93.50 88.82 97.51	13,990 6,219 7,771	66.00 0.00 0.00 0.00 0.00 0.00	192.8 191.7 193.6	1.227- 1.250 1.210	2.77- 2.89 2.67-
Minnesota Metropolitan Rural	397,258 187,915 209,343	77.30 67.07 89.55	2,543 1,213 1,330	6.29	209.0 222.0+ 197.2	1.298 1.409 1.203	2.84 2.94 88
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4							

Table 2. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rura; counties: United States, 1985

	Non-HMD 6	enrollment	Disch	arges	30-day post-admi	ission deaths	4
		As percent of all		Per 1,000	er 1,00	Per 1,000 non-HMO	deaths per 1,000
Area of residence	Number	0	Number	101	discharges	- 0	person
IOWa Metropolitan Bural	404,057 136,818 267,239	99.37 98.24 99.96	2,556 1,694	6.22- 6.27 6.20	176.2 161.0 183.8	1.097- 1.001- 1.144	2.88 2.78 2.92
Missour; Metropolitan Rural	655,875 383,255 272,620	8.0 9.9	w. 0. 0	6.51 6.91 5.97-	191.3 190.4 192.7	1.242 1.313 1.145	2.70- 2.94 2.36-
North Dakota Metropolitan Rural	85,433 22,964 62,469	98.28 98.14 98.34	605 170 435	6.90 7.29 6.75	207.2 200.4 209.9	1.416 1.446 1.405	2.85 2.86 2.84
South Dakota Metropolitan Rural	96.216 20,427 75,789	999.59 99.92 51	728 168 560	7.39 8.18 7.18	175.8 144.0 185.0	1.299	2.80 3.08 2.73
Nebraska Metropolitan Rural	209,910 70,076 139,834	999 995 996 996	1,381 446 935	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	192.5 202.6 187.8	1.254 1.289 1.238	2.76 3.06 2.62
Kansas Metropolitan Rural	307,796 123,748 184,048	95.82 93.24 97.63	1,864 764 1,160	5.00 .00.00 .144	199.1 163.9 208.2	1.179 1.036- 1.271	2.55
South Metropolitan Rural	8,980,101 5,757,016 3,223,085	97.94 96.87 99.91	57,923 37,239 20,684	6.50-	194.2 187.7 205.8+	1.255- 1.221- 1.315	2.68-2.79-
South Atlantic Metropolitan Rural	4,668,855 3,313,125 1,355,730	9 9 9 9 9 9 9 9 9 9	30,538 22,128 8,410	6.58- 6.71 6.25-	189.0 181.0- 210.1+	1.245- 1.218- 1.312	2.79- 2.85 2.64-
Delaware Metropolitan Rural	70,251 44,355 25,896	000 000 0 000 400 400	478 296 182	6.90 6.78 7.10	171.8 151.3 205.6	1.192 1.038 1.454	2.92 3.13 2.58
Maryland Metropolitan Rural	436,606 395,091 41,515	00 00 04 04 05 05	3,253 2,946 307	7.53+7.55+	173.7- 173.3 176.7	1.310 1.313 1.276	
District of Col. Metropolitan Rurai	66,196 66,196 0	99.75 99.75 0.00	4 8 8 8 8 0	7.28 7.28 0.00	196.1 196.1 0.0	1.435 0.000	3.85+ 3.85+ 0.00

Table 2. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

+	deaths per 1,000 persons	2.83 2.97 2.60-	2.63 2.59	2.69- 2.77 2.61-	2.66- 2.62 2.71	2.65- 2.78 2.49-	2.73- 2.73-	2.68- 2.86- 2.49-	2.70 2.91 2.55-	2.61- 2.76 2.38-	2.74 2.93 2.46-	2.65- 3.00 2.55-
ission deaths	Per 1,000 non-HMG enrollees	1.354 1.335 1.386	1.356 1.402 1.329	1.145- 1.140- 1.150	1.373 1.249 1.536	1.226 1.149 1.324	1.194-1.315	1.330 1.298 1.363	1.231 1.143 1.295	1.326 1.346 1.295	1.256 1.299 1.189	1.599+
30-day post-admi	Per 1,000 discharges	206.6 205.0 209.3	206.3 196.9 212.5	211.5+ 206.1 217.2+	201.5 194.0 210.2	203.2 192.5 216.1	172.7- 169.4- 200.5	201.0+ 197.7 204.3	198.1 182.1 210.2	1914.2 191.2 199.3	204.1 211.1 193.5	212.1 220.7 210.0
arges 3	Per 1,000 non-HMO enrollees	6.52 6.47 6.59	6.59 7.11 6.29	5.540-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	6.82 6.43 7.33	1 1 1 6 6 6 6 7 7 9	6.91 6.95 6.05	6.58	6.21- 6.33 6.12-	6.86 7.04 6.56	6.15-	7.54+ 6.68 7.79+
Discha	Number	3,648 2,261 1,387	1,608 640 968	3,667 1,882 1,785	2,196 1,174 1,022	3,341 1,844 1,497	11,864 10,602 1,262	11,445 5,712 5,733	2,631 1,154 1,477	3,766 2,396 1,370	2,840 1,721 1,119	2,208 441 1,767
enrollment	As percent of all enrollees	99 .91 99 .87 99 .99	86. 9. 86. 9. 86. 9. 86. 86.	ო თ ფ თ ფ თ თ თ თ თ თ თ	0 0 0 0 0 0 0 0 0 4 0 0 4 10 10	9999 99.71 934	90.97 90.04 99.17	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2 3 3 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	000 000 040 000	~ co	ස ව ව ස හ හ හ හ හ හ
Non-HMO en	Number	566,135 355,193 210,942	244,259 90,704 153,555	689,138 346,905 342,233	329,020 186,873 142,147	561,716 313,319 248,397	1,705,534 1,514,489 191,045	1,726,272 873,594 852,678	422,657 183,264 239,393	550,327 342,007 208,320	463,131 281,960 181,171	290,157 66,363 223,794
	Area of residence	Virginia Metropolitan Rural	West Virginia Metropolitan Rural	North Carolina Metropolitan Rural	South Carolina Metropolitan Rural	Georgia Metropolitan Rural	Florida Metropolitan Rural	East South Central Metropolitan Rural	Kentucky Metropolitan Rural	Tennessee Metropolitan Rural	Alabama Metropolitan Rurai	Mississippi Metropolitan Rural

Table 2. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enroliment	Discha	arges	30-day post-admi	ission deaths	4
		As percent of all		Per 1,000 non-HMD	er 1,00	Per 1,000 non-HMO	deaths per 1,000
Area of residence	Number	10-	Number		discharges	- 0	person
West South Central Metropolitan	2,584,974	47.00 99.59 70.00	15, 9 9, 940 6, 599	6.14- 6.01- 6.35-	199.2 197.6 201.6	1.221- 1.183- 1.277	2.49- 2.61- 2.32-
Arkansas Metropolitan Rurai	321,739 100,966 220,773		. 05 61 44	5.34 6.12 6.44	199.0 198.8 199.1	1.263 1.215 1.286	2.30- 2.52 2.20-
Louisiana Metropolitan Rurai	415,968 268,137 147,831	& & & & & & & & & & & & & & & & & & &	3,064 1,970 1,094	7.35+ 7.38 7.29	203.5 209.5 192.9	1.480+ 1.528+ 1.395	2.96 3.19+ 2.58
Oktahoma Metropolitan Rural	378,716 180,038 198,678	99.005 98.00 96.00	2,336 1,059 1,277	6.11- 5.88- 6.31	212.3 214.5 210.5	1.290 1.253 1.322	2.62- 2.71 2.54-
Texas Metropolitan Rurai	1,468,551 1,021,156 447,395	999.81 999.73	8,481 5,751 2,730	5.76- 5.65- 6.01-	194.2 190.3 202.2	1.121- 1.078- 1.215	2.45-2.18-
West Metropolitan Rural	4,539,951 3,642,859 897,092	93.08 91.96 97.88	27,469 22,327 5,142	6.04- 5.13-	194.0 193.4 196.2	1.172-1.185-	2.71- 2.75- 2.56-
Mountain Metropolitan Rurai	1,200,638 720,893 479,745	94.36 92.10 97.98	6,801 4,132 2,669	5.67- 5.77- 5.52-	194.2 185.6 207.3	1.097- 1.064- 1.146-	2.47- 2.47- 2.47-
Montana Metropolitan Rural	97.248 21,173 76,075	O O O O O O	706 158 548	7.20	169.1 195.5 161.6	1.233 1.470 1.168	2.55
Idaho Metropolitan Rural	109,822 18,471 91,351	99.77 99.90 99.40	Ω 4 4 0 0 0 6 14 0 0	4 4 4 0 0 0 0 1 0 0 0	203.9 156.4 213.4	0.994- 0.763- 1.039	2.55 2.18 2.62
Wyoming Metropolitan Rural	42,408 12,265 30,143	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	223 66 157	5.23- 5.42 5.16-	212.8 149.3 239.7	1.123 0.823 1.243	2.20- 2.10 2.25
Colorado Metropolitan Rurai	266,663 201,737 64,926	94.73 95.73 93.22	1,445 1,143 302	5.64 4.68 5.88 1.88	181.2 179.2 188.2	0.976- 1.011- 0.873-	2.583-

Table 2. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

ercent all oilees Numbe 2.49 69
ali 2.49 69.86 5.86 266 7.76 421
91.33 2,131 89.11 1,620 98.31 511
99.92 569 99.94 422 99.88 147
36.15 487 34.73 364 31.83 123
92.62 20,668 91.93 18,195 97.77 2,473
92.41 2,645 90.86 1,963 97.42 662
36.84 1,654 30.38 978 38.65 676
93.71 15,731 93.36 14,815 99.57 916
99.78 110 99.75 36 99.80 74
33.64 528 33.31 383 34.47 145

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

deaths per 1,000 persons 3.45+ 3.22 2.40 3.47+ 3.20 3.48+3.62+ 37+ 3.13+ 3.35 2.91 3.14 3.27+ 3.48 2.45 3.29+ 3.30+ 2.99 2.89 Total . . m m 30-day post-admission deaths Per 1,000 non-HMD enrollees 1.851+ 2.010+ 1.764 .598+ .405 .132 .740+ .442+ .441+ 1.389 1.361 1.554 1.188 . 534 .155 .154 .202 .054 Per 1,000 discharges 162.9-152.7-171.4 164.5 44.3-185.0-187.5 184.7 169.5 152.6 233.2 205.9 183.8 193.8 227.0 172.4 220.5 236.5 195.4 220.6 251.5 181.7 190.9 Per 1,000 non-HMD enrollees 8.33+ 8.46+ 9.02+ 8.53+ 8.94+ 8.26+ 7.35 7.79+ 7.93+ 7.93+ 92.9 7.56 7.01 6.97 6.89 6.93 7.02 7.49 7.08 6.44 Discharges 48,753 2,775 722 1,109 660 209 1,167 1113 94 365 438 1,045 956 375 267 , 050 , 848 , 537 536 570 Number 80,592 12,431 36. As percent enrollees 99.88 99.87 99.93 99.89 98.98 97.91 99.52 93.75 95.67 98.67 91.00 92.57 97.59 97.56 96.63 99.16 95.31 99.82 of all 96.70 96.20 98.04 enroliment Non-HMD 429,794 429,794 65,540 20,281 72,225 71,185 153,209 16,035 13,464 52,846 114,752 44,397 29,738 62,781 132,332 396,761 96,911 157,139 102,964 27,613 26,698,924 1,569,313 Number 6,276,897 뿔 Bangor, ME Lewiston-Auburn, Portland, ME Area of residence New Hampshire Manchester, NH Portsmouth, NH Boston, MA New Bedford, MA Pittsfield, MA Springfield, MA Worcester, MA Bridgeport, CT Hartford, CT New Haven, CT New London, CT Massachusetts Burlington, VT Providence, RI Rhode Island Connecticut United States New England Vermont Northeast Maine

Table 3. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

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Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission Table 3. deaths fo

0 t	deaths per 1,000	3.29+	38 41 62	E 0.	7.8.	4. 86	9.0	.5	3.31+	.24	.37	.38	2.24	α.	3.15+	-:1	`. °	? ?		<u>ي</u> د	, w	. 7	٠. د	3.0	! -:
mission deat	Per 1,000 non-HMD enrollees	1.440+	1.428+1.399	.02	. 58	. 955	. 38	. 46	1.538+	47	. 521	9.	 	. 92	1.403+	.35	42	. 23	.21	.129	63	.132	. 29	40	. 94
30-day post-adm	Per 1,000 discharges	186.1	184.2 193.1 155.0	45.	91.1	12. 98.	91.	83.	191.7	88	10.	9	74.	51.	185.4	00	74.	 	82.	76.	200	79.	73.	9 Q	4
harges	Per 1,000 non-HMO enrollees	7.74+	7.73+7.22		. m 0	.28	2.0	00	. 02		.11	.25	8 19+ 8 81+	. 83	7.59+	8	0,0	9 6	. 7	.49	<u> </u>	4.	4.	7,4	0 4
Disc	Number	36,322	16,620 830 236	100	44	28	0 -	466 375	00 0	S	51	27	1,722	2	12,414	4	PH 9	4 1	. 9	31	S	31	0	m o	\circ
enrollment	As percent of all ensollees	98.68	98.98 98.78 99.96	6000		တ်လ	4.0	00	7.8	9.4	9.2	- 12	99.40	6.1	98.75	9.9	9.9	ກ ດ ກ ດ	. o.	9.9	დ. c	. 00	9.9	თ. თ.	, , ,
Non-HMD	Number	4,707,584	2,143,249 115,122 35,576	4 6 6	7,14	30,84	7,86	5,21	6,15	1.24	64,06	4,64	211,511	6,38	1,648,180	0,69	7,56	5,24	0,26	48,04	9,05	48,47	2,88	00.0	0,03
	Area of residence	Middle Atlanti	New York bany, NY	× × ·	assactScffotk	ragara Fal	Oughkeepsie, NY	yracuse, NY tica-Rome,	New Jersey	rantic city, rgen-Passaic	rsey City, NJ	ndocth-Oc	ark, NJ	Vineland, NJ	Pennsylvania	toona, PA		rie, PA	ohnstown, PA	ancaster, PA	hiladelphia	Reading. PA	cranton,	haron, PA	tate Co

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notes at

deaths per 1,000 persons 2.99+ 2.92 Total 30-day post-admission deaths Per 1,000 non-HMD enrollees 0.000 .305 11.359 11.483 11.275 11.339 11.339 11.539 11.539 11.519 11.516 11.516 1.281 Per 1,000 discharges 1992 . 2 2013 . 2 2013 . 2 1179 . 3 1179 . 3 1179 . 3 2000 . 0 2010 . 6 1000 . 6 2010 . 8 2010 . 8 2550.00 2750.00 2750.00 2750.00 2201.60 2201.60 2201.60 201.70 20 190.8 191.4 Per 1,000 non-HMO enrollees 7.07 7.01 7.05 7.25 7.25 7.26 7.20 7.20 6.85 6.71 Discharges 810 112 152 203 203 213 761 761 76 134 46,447 32,457 Number 80 3 As percent of all enrollees 97.76 $\begin{array}{c} \mathbf{0} \ \mathbf{$ 96.39 enroliment Non-HMD 1,263,869 51,895 159,407 222,585 121,377 103,547 19,579 25,009 19,579 27,340 15,230 21,934 70,660 1,265,011 30,946 12,672 13,593 15,992 15,020 36,099 43,549 28,351 24,799 623,062 17,198 17,198 17,198 17,198 34,160 118,100 110,842 113,722 113,722 113,723 113,723 113,723 113,723 6,901,975 4,745,430 Number Akron, OH
Canton, OH
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Cleveland, OH
Dayton, OH
Hamilton, OH
Lima, OH
Lorain-Elyria, OH
Mansfield, OH
Steubenville, OH-WV Indiana
Anderson, IN
Bloomington, IN
Elkhart-Goshen, IN
Evansville, IN-KY
Fort Wayne, IN East North Central Gary-Hammond, IN Indianapolis, IN Kokomo, IN Lafayette, IN Muncie, IN South Bend, IN Aurora-Eigin, IL
Bloomington, IL
Chicago, IL
Chicago, IL
Joliet, IL
Xankakee, IL
Kankakee, IL Area of residence Springfield, IL foungstown, OH North Central Rockford, IL eoria, IL 0110

Table 3. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statical area: United States, 1988

Fireliment, short-stay hospital discharges, and post-admission Table deaths metrop

tropolitan statistical a	United	tares, 1			4		
	Non-HWD	enroliment	Disch	arges	30-day post-adm	331011 049011	o ta
		0 -		-		Per 1,000	ths
Area of residence	Number	enrollees	Number	100	discharges	- 0	persons
C C C C C C C C C C C C C C C C C C C	2.44	6.8	6.793	6	. 98	. 29	8.
MI	17.76	5.1	6	7	99.	.07	6.
به	6,83	8.6	0	4	71.	.07	0,1
DOF	21,61	9.8	7	. 82	96	46.4	٠, ٥
н	,82	9	3,355	7.56+	186.7	1.406	2.97
	3,08	0.1	~ (. n	. 40	77.	
Grand Rapids, MI	4,09	4.0	N C	Ü. A	0 Q	, w	- 10
⊣	, 00	, a	٧ ٧	- 4		5.00	8
Kalamazoo, mi	1 . U . C	90	- 49		96	.01	.2
	9 6 6 5	8 .0	0	æ	76.	.01	4.
Saginaw, MI	42,162	96.18	278	9.	71.	. 13	ω.
				-	-	3	•
S	1,0	09.66	4,063	6.58	199.5	1.310	2.00
, WI	4,48	6 6	0	φ,	- 6	0 0	9 4
Eau Claire, WI	6,95	6	8	٦,		, c	0 4
Green Bay, WI	9,18	6	~ 1	٠, ۱	200	0 0	9 4
Janesville, WI	6,52	ω. ω.	-	` .		י ס	9 0
	4,29	ი ი	6 (7	::	7 .	9 1
LaCrosse, WI	82	6	00 (4. (900	2 4 5 0	
WI	30,77	9.7	80	× .	31.2	9 6	7 -
9	6,81	9.5	1,160			, . , .	- 6
H	0,50	g.	m (ų,	. 4	14.	9 0
Sheboygan, WI	4,46	6	10 (O	٠,		. 20	9 4
Wausau, WI	2,94	6 6	8/	, S	0	. 40	t.
West North Central	2,156,545	93.50	13,990	6.38-	192.8	1.227-	2.77-
4.	7 25	7 3	54	2	. 60	. 29	80
	20 07	6.7	22	9	42.	1.865	3.51
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St. Cloud. MN	12,248	70.92	9	5.05	141.3	. 70	.5
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A.D	4,05	9.3	2,556	Ġ.	76.2	60.	
· Rapids,	9,32	о О	N	•	000	.00.	•
port, IA-I	4,64	о О	9	_ લ	. 0	0 +	- 0
Noines, I	90.	4 .	4 (י ע	7 6	11.	9
que, IA	1,46	9	0 1	ů.	. u	, ,	90
Iowa City, IA	6,24		4 (9 1	. 64	20	. 10
City,	15,951	9 9 9 9 9 9	500	- LC	194.2	1.065	2.44
Waterioo, 1A	70'8	n	•				

Table 3. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 3.35+ 3.59+ 2.89 persons 2.68-2.79-2.92 2.85 2.67 3.00 2.61 2.80 2.76 2.68 2.92 2.66 2.13 2.61 2.41 Total 30-day post-admission deaths Per 1,000 non-HMD enrollees 1.179 0.986 0.514-1.022 1.242 0.810 1.297 1.278 1.157 1.368 0.933 .245-. 575 . 433 . 534 . 299 . 115 . 188 1.254 1.170 1.227 1.255-.192 .310 .402 .305 .249 Per 1,000 discharges 199.1 179.1 105.3-173.7-173.2 196.6 193.9 191.3 209.0 194.0 194.0 169.0 160.0 207.2 208.9 189.0 238.6 175.8 141.2 145.4 192.5 215.5 186.4 194.2 189.0 171.8 Per 1,000 non-HMG enrollees 7.53+ 8.11+ 6.56 5.86-5.96-5.36-6.51 6.22 6.22 6.58 6.77 7.04 5.79 6.90 7.52 7.69 6.72 7.39 6.46-6.58 6.90 6.44 5.47 6.57 Discharges 1,864 28 96 246 1,381 116 379 4,313 50 1,022 1,997 1,997 478 387 3,253 1,961 111 88 605 62 111 39 728 56 112 57,923 30,538 Number As percent of all enrollees 98.17 999.98 99.95.72 99.97 98.28 95.13 96.57 99.95 98.52 98.50 95.39 95.82 87.78 97.26 88.57 99.94 99.65 0000 0000 0000 0000 0000 97.94 96.31 enrollment Non-HMD 655,875 8,560 19,275 154,919 13,630 283,167 27,676 85,433 8,160 14,138 5,687 96,216 7,152 13,275 209,910 20,994 57,609 307,796 4,965 18,983 45,844 436,606 244,878 17,051 14,522 70,251 58,114 Number 4,668,855 8,980,101 Wilmington, DE-NJ-MD Missouri Columbia, MO Joplin, MO Kansas City, MO-KS St. Joseph, MO St. Louis, MO-IL Springfield, MO Baltimore, MD Cumberland, MD-WV Hagerstown, MD Area of residence North Dakota Bismarck, ND Fargo, ND-MN Grand Forks, ND South Dakota Rapid City, SD Sioux Falls, SD South Atlantic Kansas Lawrence, KS Topeka, KS Wichita, KS Nebraska Lincoln, NE Omaha, NE-IA Delaware Maryland South

See notes at end of table.

District of Col. Washington, DC-MD-VA

96.1

7.28

483 695

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66,196 261,121

Table 3. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

As percent of all number enrollees Number enrollees of all schalles Number enrollees Number enrollees of all schalles Number enrollees of all schalles of all	Number		Non-HMD e	enrollment	Discha	arges	30-day post-adm	ission deaths	4.
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Table 3. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 per 1,000 persons 2.56 2.88 2.12 2.12 2.27 3.44 2.72 2.72 2.68-2.70 2.87 3.07 2.50 deaths 30-day post-admission deaths Per 1,000 non-HMD enrollees 11.53598 11.53598 11.53599 11.5359 11.5359 11.5359 11.3346 11.3346 11.3346 11.3346 11.3346 1.394 1.394 1.391 1.321 1.326 1.172 1.504 1.567 1.358 1.738+ 1.738+ 1.231 1.003 1.138 0.884 1.330 Per 1,000 discharges 172.7-2119.7-1167.2-1167.2-1176.5-1176.5-1176.6-201.0+ 194.2 244.0 204.7 1187.9 206.9 98.1 89.7 77.0 Per 1,000 enrollees 66.91 66.93 66.93 66.93 7.06 7. 6.86 6.22 7.57 7.57 6.87 6.87 BON-HMO . 21-. 31 . 49 6.63 Discharges 3,766 309 77 77 316 483 743 623 2,631 164 693 66 11,445 Number 11,864 As percent enrollees 990.97 999.68 912.99 999.65 999.65 999.75 999.75 999.75 999.75 999.75 999.75 999.75 999.85 999.85 999.85 999.85 999.85 999.85 999.85 999.85 999.85 999.85 999.85 999.85 999.85 999.85 999.85 999.85 99.70 98.87 99.20 of all 99.80 Non-HMO enrollment 550,327 500,051 112,541 100,064 755,068 92,936 936,936 422,657 31,008 107,485 10,319 1,726,272 Number Bradenton, FL
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Pensacola, FL
Pensacola, FL
Sarasota, FL Charksville, TN-GA Clarksville, TN-KY Jackson, TN Johnson City, TN-VA Knoxville, TN Memphis, TN-AR-MS Nashville, TN West Paim Beach, FL East South Central Lexington, KY Louisville, KY-IN Owensboro, KY Area of residence Tallahassee, FL Tennessee Kentucky Florida Lampa

See notes at end of table.

Table 3. Malignant neoplasms of digestive organs and peritoneum: Enroliment, short-stay hospital discharges, and post-admission deaths for aged medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

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enrollment		perc	enrollees	0	n (o. 00	9.9	ō.	6.6	6	0		- on on	0		000000000000000000000000000000000000000	n (ο ο	99.74	a		n (9.9	න . ග	9.9	0	. 0		n <		ين ي	9.9	9.9	9.9	86.66	9.0	9.9	9.9	7.4		•
Non-HMD			Number		101,004	13,124	108,546	12,690	16,687	14,295	17,137	50.7	0000	13,604	4	, , ,	10.07	0,00	, 55	2,584,974	7.3	01,12	9	. 41	50,966	11,012	5 0 5	10,01		0 0	00.00	4,62	6,43	4.64	8.70	36,822	378,716	8,215	8.221	64	71,032	,
metropo: : can statistical			Area of residence		A Labama	ب	Birmingham, AL	Dothan, AL	Florence, AL	Garage A.	Linetection At			TENDO TENDO		14 1 2 2 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1	- XO	, ms	a S C a	West South Central		2000	stteville, AK	t Smith, AR	vie Rock,	Pine Bluff, AR		A	C		HOUTH - I II DOG SIX . LA		Lake Charles, LA	Monroe, LA	New Orleans, LA	Shreveport, LA	Октароша	Enid. OK	Lawton, OK	ma City	_)

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Table 3. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitzn statistical area: United States, 1986 deaths per 1,000 persons 2.71-2.47-2.55 2.11 3.30 2.55 2.20-1.66 2.44 30-day post-admission deaths Per 1,000 non-HMD enrollees 11.228 0.994-.172-.097 . 233 . 333 . 651 1.123 0.566 1.021 Per 1,000 discharges 169.1 206.0 185.5 94.0 203.9 212.8 104.4 183.0 94.2 Per 1,000 non-HMD enrollees 4.93-6.04-5.67-7.20 6.55 8.69 5.4.8 8.4.8 8.0 8.0 Discharges 223 29 37 Number 27,469 6,801 As percent of all enrollees $\begin{array}{c} \mathbf{0} \\ \mathbf{$ 99.90 99.88 99.91 99.77 93.08 94.36 99.91 Non-HMO enroliment 97.248 12.097 9.076 109,822 18,471 42,408 5,379 6,886 Number ,200,638 4,539,951 Longwiew, TX
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McAilen, TX
Midland, TX
Odessa, TX
San Angelo, TX
San Antonio, TX
Sherman-Denison, TX
Texarkana, TX-AR Browns ville, TX Corpus Christi, TX Dallas, TX TX Ert Worth, TX Galveston, TX Houston, TX Killen-lemple, TX Laredo, TX Area of residence Victoria, TX Waco, TX Wichita Falls, 둗 Boise City, ID Abilene, TX Austin, TX Beaumont, TX Brazoria, TX Wyoming Casper, WY Cheyenne, WY Billings, MT Great Falls, Mountain Montana Idaho

organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission Table death metro

d post-admissio tate, and	4	deaths per 1,000	2.53 2.70 2.74 2.76 1.98	2.69 2.4.5 2.4.5 2.42	2.37- 2.36- 2.42-	2.26- 2.30 2.32-	2.58 2.45 6.55	2.80-	20000000000000000000000000000000000000	2.57 2.98 2.11 2.59 2.59
discharges, an nd division, S	mission deaths	Per 1,000 non-HMO enrollees	0.976- 0.852 0.944 1.027- 1.050 0.932	1.278 1.176 0.964 0.946	1.161 1.178 1.096	0.753- 1.117 0.702-	1.463 1.462 0.808	1.198-	1.018- 0.865 0.910 0.910 1.184 1.038 0.859- 1.125	1.039- 1.035 1.079 0.852-
-stay nospital census region a	30-day post-adm	Per 1,000 discharges	181.2 166.1 162.8 175.3 198.9 220.6	231.9 235.2 174.0 171.6	190.3 178.1 203.9	169.8 235.2 155.9	243.3+ 246.5 155.6	3	11111 1001 1001 1000 1000 1000 1000 10	193. 2003. 2010. 194.6 8 8 8
roliment, short. population, by	arges	per 1,000 non-HMO enrollees		. 55.05.0 . 65.07.1	5. 15. 15. 3. 5. 15. 15. 1	444 4004. 1000.	5.08 5.04 5.21	6.18-	5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.	で 4 で で で 4 か ご 4 で 1 は 4 を 4 4
ritoneum: En for the aged	Disch	Number	1,445 143 143 704 80 55	001 000 000 000 000	2,131 1,243 377	569 79 343	487 266 98	20,668	2,645 465 92 92 981 262 262 811 813	1,654 163 107 187 187
ive organs and pe total death rate States, 1936	enroliment	As percent of all enrollees	94.73 997.73 997.03 999.10 44.62	922.49 99.94 3.66	91.33 86.74 96.06	000 000 000 004	86.15 82.98 89.17	92.62	9922 9999 9999 996 996 997 1111 990 990 990 990 990 990 990 990 99	86.84 88.67 99.78 72.79 90.39
sms of digest nrollees and rea: United	Non-HMD 6	Number	266,663 15,143 24,899 119,624 15,089 11,610	125,371 33,783 9,375 8,454	348,748 187,381 70,550	128,579 16,076 77,243	81,799 45,252 19,133	3,339,313	461,706 13,629 15,439 112,559 112,559 41,237 70,245 71,048	303,778 28,947 20,326 99,155 33,249
le 3. Malignant neopla ths for aged Medicare e ropolitan statistical a		Area of residence	Colorado Boulder-Longmont, CO Colorado Springs, CO Fort Collins, CO Greeley, CO Pueblo, CO	New Mexico Albuquerque, NM Las Cruces, NM Santa Fe, NM	Arizona Phoenix, AZ Tucson, AZ	Utah Provo-Orem, UT Sait Lake City, UT	Nevada Las Vegas, NV Reno, NV	Pacific	Washington Bellingham, WA Bremerton, WA Olympia, WA Richland, WA Seattle, WA Tacoma, WA Vancouver, WA	Eugene, OR Medford, OR Portland, OR Salem, OR

per 1,000 2.85 2.22.22.85 2.22.22.93.71 2.22.22.98 2.22.33.01 2.22.33.01 2.22.33.01 2.22.33.01 2.22.33.01 persons deaths Total 30-day post-admission deaths Per 1,000 non-HMD enrollees 11.255 600. Per 1,000 discharges 11998 11998 11998 11998 11998 11993 11993 11993 11981 148.7 Per 1,000 enrollees non-HMO 6.84 Discharges 15,731 578 2243 1129 2286 1198 72 185 322 778 1,223 300 Number As percent of all enrollees Non-HMO enrollment 24,969 571,455 677,425 677,465 133,619 188,258 49,488 107,76 120,274 29,131 2,477,248 24,640 44,775 40,855 35,778 28,811 163,753 16,348 5,625 11,835 205,402 Number 021 38, Anaheim-Santa Ana, CA Dxnard-Ventura, CA Redding, CA Sacremento, CA Salinas, CA San Dieso, CA San Francisco, CA CA CA Area of residence Bakersfield, CA Los Angeles, CA Santa Cruz, CA Santa Rosa, CA Stockton, CA Vallejo, CA Visalia, CA Barbara Yuba City, CA San Jose, CA California Modesto, CA Dakland, CA Fresno, CA Merced, CA Chico, CA Alaska Santa

Table 3. Malignant neoplasms of digestive organs and peritoneum: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

Data from the Medicare Statistical System. sex. A (+) or (-) indicates NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicather antered is significantly greater or less than the U.S. rate (p<.01). Sources: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical S. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population)

1.84

0.574 1.071

85.2

2.86 2.75

1.127

164.5

.49 6.61

528 383

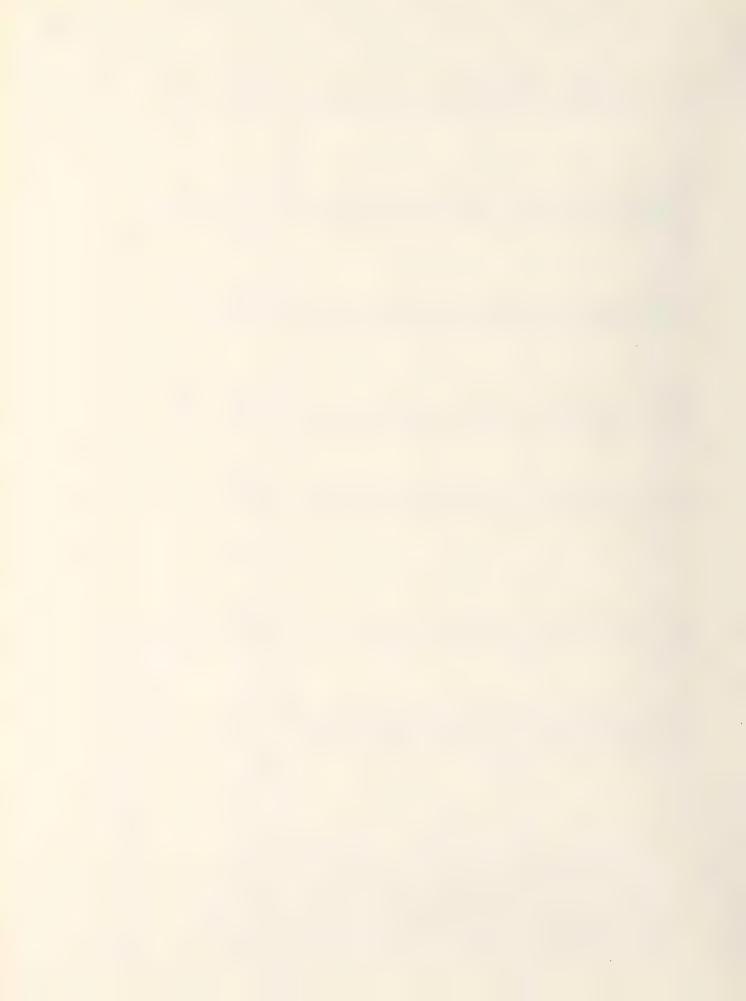
83.64

80,233

Anchorage, AK

Honolulu, HI

Hawai:



Malignant neoplasms of trachea, bronchus, and lung

This volume contains data on hospitalization and mortality for all cancer patients and for the two leading causes of death from cancer: cancer of the digestive organs and peritoneum and cancer of the trachea, bronchus, and lung. In 1986, the overall death rate from cancer for the population aged 65 years or over was 10.56 deaths per 1,000 persons. Cancer of the trachea, bronchus, and lung accounted for approximately 25 percent of all cancer deaths among the Medicare aged. The death rate from this type of cancer for the general population was 2.66 deaths per 1,000 aged persons (Table 1).

In 1986, cancer of the trachea, bronchus, and lung accounted for 103,766 hospital discharges for Medicare beneficiaries 65 years of age or over, for a rate of 3.88 discharges per 1,000 enrollees. The 30-day post-admission mortality rate was 281.0 deaths per 1,000 discharges, or more than

Age and sex patterns

Both Medicare discharge and general aged population mortality rates for cancer of the trachea, bronchus, and lung were much higher for men than for women. For example, among enrollees 75–84 years of age, the discharge rate for men was more than three times the rate for women (6.85 discharges per 1,000 men versus 2.11

NOTE: Malignant neoplasms of trachea, bronchus, and lung is ICD-9-CM codes 162, 197.0*, 197.3.

discharges per 1,000 women). Similarly, the population mortality rate for men that age was more than three times the rate for women (5.45 deaths per 1,000 men versus 1.41 per 1,000 women). These figures likely reflect, in large part, differences in smoking history between men and women in that age group.

Among men, the discharge rate was highest in the age group 75-84 years; among women, it was highest in the age group 65-74. Discharge rates were substantially lower in the age group 85 years or over for both men and women. For men, deaths per 1,000 persons were highest (5.45 per 1,000) among those aged 75-84 years. Among women, population mortality was similar in the age groups 65-74 years and 75-84 years (1.48 and 1.41 per 1,000, respectively) and lowest for those 85 years or over (1.09 per 1,000). Thirty-day post-admission mortality per 1,000 discharges increased with age for both men and women.

Patterns by race

Discharge rates for cancer of the trachea, bronchus, and lung ranged from 10 to 27 percent higher for black men than for white men across age groups. Discharge rates for white and black women were similar across age groups.

Population mortality was 29 percent higher for black men than for white men in the age group 65–74 years (5.18 deaths per 1,000 persons versus 4.01 deaths per 1,000); for men 85 years or over, the rate was lower

for black men than for white men (4.32 versus 4.52). Mortality was higher for white women than black women in all age groups.

Variations by geographic area

Tables 2 and 3 contain data on utilization and mortality by geographic area. The tables are broken out by U.S. census region, division, and State. Data on metropolitan and rural areas within each State are shown in Table 2, whereas data at the metropolitan statistical area (MSA) level are shown in Table 3. Figures 1–3 were derived from the data in these tables.

Discharge rates

The States with the highest discharge rates for cancer of the trachea, bronchus, and lung were in the Southeast, with a few exceptions (Figure 1). Louisiana had the highest rate among all States, with 5.65 discharges per 1,000 enrollees. The lowest rates of discharge tended to be in the Mountain and West North Central Divisions, with the lowest discharge rate occurring in Utah (1.60 discharges per 1,000 enrollees). As can be seen from the boxplots in Figure 2, the East South Central Division had the highest median rates.

Discharge rates varied considerably more among MSAs for this type of cancer than for all cancers combined or cancer of the digestive organs and peritoneum. The coefficient of variation for cancer of the trachea, bronchus, and lung was 0.27,

whereas the coefficients of variation for all cancers combined and cancer of the digestive organs and peritoneum were only 0.13 and 0.15, respectively.

Population death rates

As with other cancers, there is a clear regional pattern in population mortality from cancer of the trachea, bronchus, and lung. The highest mortality rates were primarily in Eastern and Southeastern States (Figure 3), although the highest mortality rate (3.34 deaths per 1,000 persons) occurred in Nevada. The lowest rates occurred in the West and North Central Regions of the Nation, with Utah again having the lowest mortality rate (1.32 deaths per 1,000 persons). Population mortality generally followed patterns similar to those of hospital discharge rates.

Correlations between rates

Pearson correlation coefficients were computed between sets of rates for MSAs and rural areas within States. Discharges per 1,000 enrollees and 30-day post-admission deaths per 1,000 discharges were negatively correlated (r = -0.25). Discharges per 1,000 enrollees were positively correlated with deaths per 1,000 persons (r = 0.59). This correlation was stronger for cancer of the trachea, bronchus, and lung than for the other diagnostic groups examined in this study.

Urban-rural patterns

Nationwide, discharge rates for malignant neoplasms of the trachea, bronchus, and lung were similar in urban and rural areas (3.92 discharges per 1,000 enrollees and 3.81 discharges per 1,000 enrollees, respectively). Deaths per 1,000 aged persons were slightly higher in urban areas (2.73) than in rural areas (2.53), although 30-day post-admission deaths per 1,000 discharges were lower in urban areas (274.8 in urban and 298.3 in rural areas).

Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths Medicare enrollees and total death rate for the aged population, by age, sex, and race: United States, 1986 Table 1. for aged

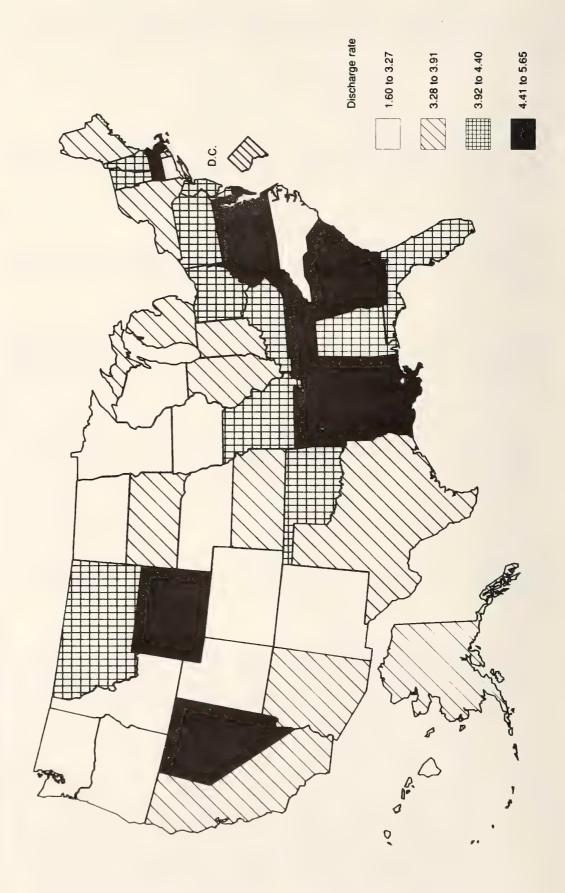
4	deaths per 1,000 persons	2.66 2.92 2.92 2.05	4 4 7 3 4 4 0 4 4 . 0 1 5 8 8 4 9 8 8 9 1 8 9 1 8 9 1 8 9 1 8 9 1 9 1 9	11111 4440 1840	2.67 2.62 2.95 2.05	74.44 7.04.64 7.04.64	1.52	2222 28.92 48.00 40.00 40.04	5.27 5.18 5.71 4.32	1.21 1.25 1.19 0.99
ission deaths	Per 1,000 non-HMO enrollees	1.09 1.10 1.20 0.71	1.82 1.67 2.25 1.54	0.61 0.66 0.40	1.10 1.10 1.21 0.72	1.82 1.65 2.29 1.56	0.62 0.67 0.41	1.20 1.26 0.70	2.09 2.10 1.52	0.61 0.65 0.36
30-day post-admi	Per 1,000 discharges	281.0 259.6 312.7 387.9	293.6 271.0 328.9 398.9	259.1 239.9 282.8 373.2	283.2 260.7 316.1 393.5	296.5 272.0 334.9 402.9	260.3 241.4 281.9 381.0	276.8 264.2 298.3 327.0	281.6 272.1 295.4 343.8	266.3 246.7 304.1 300.6
Segre	Per 1,000 non-HMD enrollees	3.88 1.288 1.883	6.14 3.85 85 85 85	2.35 2.74 2.11 1.07	3.86 4.21 3.82 1.81	66.00 60.00 64.00 64.00	2.36 2.17 2.12 1.06	4 4 4 4 5 7 5 7 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	7.40 7.70 7.51 4.40	2.28 2.58 2.13 1.18
Disch	Number	103,766 68,411 30,761 4,594	66,021 43,427 19,964 2,630	37,745 24,984 10,797 1,964	91,228 59,863 27,304 4,061	57,615 37,678 17,619 2,318	33,613 22,185 9,685 1,743	8,614 5,791 2,404 419	5,873 3,999 1,618	2,741 1,792 786 163
enroliment	As percent of all enrollees	96.33 96.96 98.96	96.01 95.90 96.02 97.22	97.16 96.66 97.51 98.74	96.62 96.83 96.88	95.94 95.83 97.12	97.07 96.55 97.42 98.69	97.86 97.54 98.11 99.11	97.49 97.28 97.67 98.74	98.10 97.74 98.37 99.26
Non-HMD e	Number	26,698,924 16,162,594 8,020,447 2,515,883	10,650,991 7,056,445 2,912,366 682,180	16,047,933 9,106,149 5,108,081 1,833,703	23,574,066 14,207,064 7,134,499 2,232,503	9,391,016 6,216,472 2,573,989 600,555	14,183,050 7,990,592 4,560,510 1,631,948	1,991,943 1,213,014 583,429 195,500	792,788 519,305 215,401 58,082	1,199,155 693,709 368,028 137,418
	Age, sex, and race	All persons (1) 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over	White 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over	Black 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over

(1)Includes persons of other races in addition to white and black persons.

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.

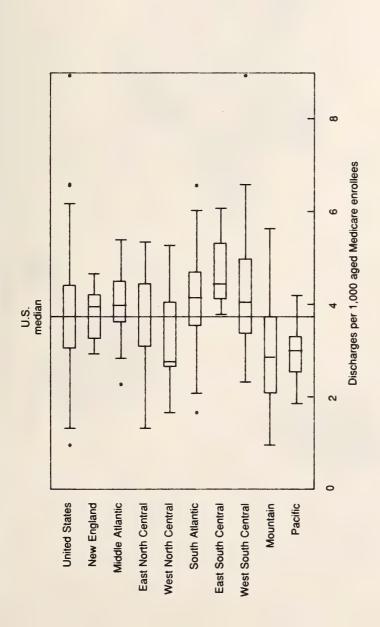
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Figure 1. Malignant neoplasms of trachea, bronchus, and lung: Short-stay hospital discharges per 1,000 aged Medicare enrollees, by State: 1986



NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

Figure 2. Malignant neoplasms of trachea, bronchus, and lung: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by division: United States, 1986



	Rural or metropolitan	
Area	statistical area	Rate
United States	Provo-Orem, UT	0.95
	Panama City, FL	6.59
	Lake Charles, LA	9.60
	Monroe, LA	8.95
Middle Atlantic	Lancaster, PA	2.26
South Atlantic	Asheville, NC	1.66
	Panama City, FL	6.59
West South Central Monroe, LA	Monroe, LA	8.95
SOURCE: Health Care Management and Strate	SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.	Data al System.

Outliers for discharges per 1,000 enrollees

Figure 3. Malignant neoplasms of trachea, bronchus, and lung: Deaths per 1,000 aged population, by State: 1986

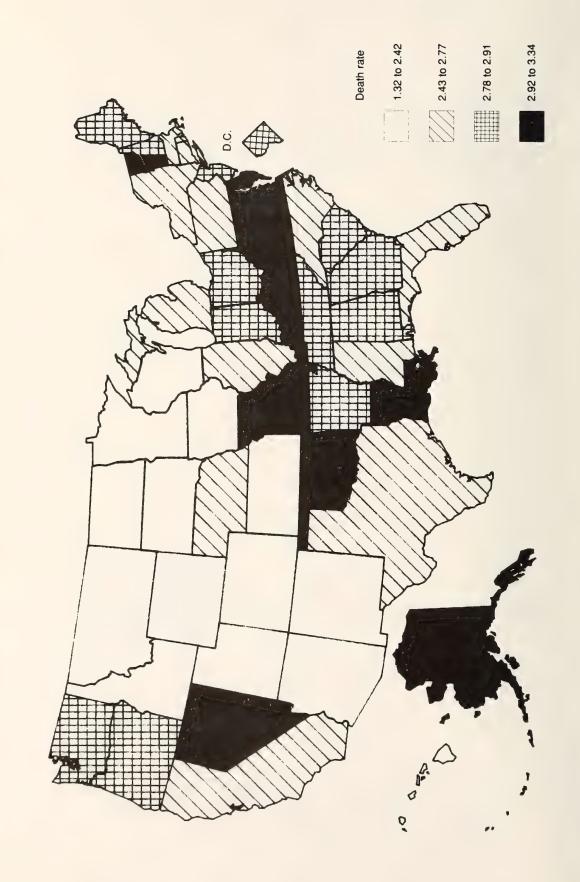


Table 2. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD e	enroliment	Disch	arges	30-day post-admi	ission deaths	+
		As percent of all earollees	Z E B D D F F	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000 persons
ted States	26,698,924	96.70	~ ₩ ₩	3.92	281.0	1.092	2.68
Metropolita	19,363,284	95.80		3.92	274.8-	1.086	2.73+
Rural	7,335,640	99.16		3.81	298.3+	1.105	2.53-
Northeast	6,276,897	98.04	24,790	4.00+	275.2	1.112	2.67
Metropolitan	5,564,648	97.84	22,005	4.02+	272.4-	1.106	2.68
Rural	712,249	99.69	2,785	3.88	298.4	1.150	2.58
New England	1,569,313	96.20	6,045	8 8 8 8 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	283.3	1.122	2.73
Metropolitan	1,342,886	95.66	5,164		277.6	1.105	2.73
Rural	226,427	99.53	881		318.3	1.224	2.78
Maine Metropolitan Rural	153,209 82,345 70,864	88.666 89.866 87.866	511 266 245	3.28 4.28	358.6+ 326.1 395.5+	1.189 1.076 1.321	2.90
New Hampshire	114,752	98.98	482	4.22	315.9	1.354	2.91
Metropolitan	74,135	98.55	306	4.19	334.0	1.468+	3.06
Rural	40,617	99.77	176	4.27	280.9	1.150	2.63
Vermont Metropolitan Rural	62,781 10,422 52,359	999.82 99.91	257 46 217	4.00 0.40 0.41	347.4 475.4 324.0	1.437 1.844 1.357	2.92 3.88 2.74
Massachusetts	709,478	93.75	3,074	4.50+	274.2	1.241+	2.77 2.94
Metropolitan	659,025	93.40	2,866	4.53+	275.8	1.255+	
Rural	50,453	98.58	208	4.08	253.0	1.064	
Rhode Island Metropolitan Rural	132,332 132,332 0	97.59 97.59 0.00	4 4 5 0	3.50	227.9- 227.9- 0.0	0.802- 0.802- 0.000	2.77
Connecticut	396,761	97.56	1,268	3.22-	270.5	0.877-	2.53
Metropolitan	384,627	97.50	1,233	3.23-	268.7	0.873-	2.53
Rural	12,134	99.6	35	2.92	335.5	0.995	2.41
Middle Atlantic Netropolitan Rural	4,707,584 4,221,762 485,822	98.68 98.55 99.76	18,745 16,841 1,904	4.02+ 4.04+ 3.89	272.6 270.8- 289.1	1.108	2.56
New York	2,143,249	98.98	8,213	8 . 8 . 9 . 9 . 9 . 9 . 9 . 9 . 9 . 9 .	270.0	1.082	2.61
Metropolitan	1,922,371	98.89	7,323		267.5	1.070	2.59
Rurał	220,878	99.75	890		291.3	1.179	2.80
a notice at and of table							

Table 2. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

Tota	deadhs per 1,000 persons	2.81 2.81 0.00	2.59 2.66 2.23-	2.59- 2.75+ 2.31-	2.74	2.88 2.96 2.59	2.91 2.93+ 2.61	2.65 2.74 2.38-	2.62 2.62 2.63 2.63	2.15- 2.23- 2.02-	2.45- 2.79 2.17-	2.01- 2.21- 1.79-
ssion dea	Per 1,000 non-HMD enrollees	1.172	1.106 1.115 1.062	1.055- 1.095 0.987-	1.092 1.113 1.035	1.172 1.187	1.118 1.162 1.041	1.081 1.085 1.068	1.112	0.890- 0.940- 0.816-	0.975- 1.028 0.935-	0.829- 0.910- 0.760-
30-day post-admi	Per 1,000 discharges	274.2 274.2 0.0	274.9 272.8 287.1	297.0 279.8 302.2+	287.4 282.4 302.3+	275.0 271.8 287.9	294.1 286.2 311.0	284.1 277.9 304.9	292.0 287.4 307.0	315.6+ 321.7+ 305.5	286.3 269.5 302.1+	315.2 320.8 309.5
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Per 1,000 non-HMO enrollees	4.25+ 6.25+ 0.00	4.05 4.10 3.78	3.71- 3.92 3.36-	3.83 3.95 3.05 3.05 3.05 3.05 3.05 3.05 3.05 3.0	4.38+ 4.38+	. 4 . 8 . 4 . 8 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6	3.87	3.87 3.92 3.73	2.81- 2.91- 2.67-	3.74- 3.79 1.19-	2.60- 2.74- 2.48-
Disch	Number	3,887 3,887 0	6,645 1,014	25,457 16,984 8,473	18,137 13,531 4,606	5,408 4,295 1,113	2,409 1,634 775	4,768 3,632 1,136	3,826 2,907 919	1,726 1,063 663	7,320 3,453 3,867	1,003 480 523
l ment	As percent of all enrollees	97.84 97.84 0.00	98.75 98.56 99.78	96.39 95.22 98.51	97.76 97.13 99.47	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	97.86 97.01 99.41	95.90 94.73 86.00	000 000 000 000 000 000	0 6 6 6 0 6 6 6 0 6 6 6	93.50 88.82 97.51	77.30 67.07 89.55
Non-HMD e	Number	916,155 916,155 0	1,648,180 1,383,236 264,944	6,901,975 4,398,761 2,503,214	4,745,430 3,453,558 1,291,872	1,263,869 987,528 276,341	623,062 349,457 223,605	1,265,011 952,934 312,077	982,444 744,347 238,097	611,044 369,292 241,752	2,156,545 945,203 1,211,342	397,258 187,915 209,343
	Area of residence	New Jersey Metropolitan Rural	Pennsylvania Metropolitan Rural	North Central Metropolitan Rural	East North Central Metropolitan Rural	Ohio Metropolitan Rural	Indiana Metropolitan Rural	Illinois Metropolitan Rural	Michigan Metropolitan Rural	Wisconsin Metropolitan Rural	West North Central Metropolitan Rural	Minnesota Metropolitan Rufal

Table 2. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rura: counties: United States, 1986

	Non-HMD e	enroliment	Discha	charges	30-day post-adm	mission deaths	
:		percent all		Per 1,000	Per 1,000	Per 1,000 non-HMO	deaths
Area of residence	Number	0	2 E E E		- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0		
IOWA Metropolitan Rural	404,057 136,818 267,239	99.37 98.24 99.96	1,117 415 702	2.80- 3.11- 2.65-	288.3 276.9 295.1	0.796- 0.857- 0.765-	2.35- 2.76 2.15-
Missour; Metropolitan Rura	655,875 383,255 272,620	98.17 96.99 99.88	2,849 1,699 1,150	4.40+ 4.57+ 4.18	266.9 247.1- 298.4	1.153 1.132 1.183	2.95+ 2.19+ 2.62
North Dakota Metropolitan Rural	85,433 22,964 62,469	98.28 98.14 98.34	286 85 201	3.27	297.4 330.5 282.9	0.958 1.224 0.863	1.85- 2.47 1.63-
South Dakota Metropolitan Rurai	96,216 20,427 75,789	999 99.92 99.51	378 93 285	3.91 4.58 3.73	257.6 238.1 264.1	1.025 1.131 0.997	2.25- 2.78 2.11-
Nebraska Metropolitan Rural	209,910 70,076 139,834	988.52 98.53 98.08	0 0 0 0 0 0 0 0 0 0 0	3.16- 3.82 2.83-	310.4 276.1 334.2	0.971 1.071 0.920	2.49 3.34+ 2.07-
Kansas Metropolitan Rural	307,796 123,748 184,048	95.82 93.24 97.63	1,033 422 611	88.89.42 9.34.69.7	301.0 282.6 314.1	1.010 0.988 1.024	2.42- 2.63 2.28-
South Metropolitan Rural	8,980,101 5,757,016 3,223,085	97.94 96.87 99.91	38,976 24,669 14,307	4 4 4 . 2 3 2 4 . 3 8 4 . 4 4 4	274.3 262.5- 295.4+	1.166+ 1.124 1.242+	2.81+ 2.87+ 2.71
South Atlantic Metropolitan Rural	4,668,855 3,313,125 1,355,730	000 000 000 000 000 000	19,761 13,959 5,802	4.21+ 4.20+ 4.22+	270.7- 260.3- 296.9+	1.133 1.102 1.208+	2.83+ 2.84+ 2.81+
Delaware Metropolitan Rural	70,251 44,355 25,896	000 000 000 000 000 000	280 182 98	3.70 3.70	264.1 226.3 340.5	1.068 0.974 1.229	3.10 3.17 2.98
Maryland Metropolitan Rural	436,606 395,091 41,515	000 000 000 044 000	2,006 1,822 184	4.60+ 4.63+ 4.37	249.7- 244.0- 309.5	1.149 1.133 1.293	3.09+ 3.06+ 41+
District of Col. Metropolitan Rural	66,196 66,196 0	99.75 99.75 0.00	210 210 0	88.00 00.00	203.8- 203.8- 0.0	0.694-	2.87 0.00

pue L and bost-admission deaths for aged

able 2. Malignant neoplasms of tracher or aged Medicare enrollees and total d ural counties: United States, 1986	asms of trachea es and total de tates, 1986	, bronchus & lung: ath rate for the a	enrofimery ged populatio	on, by census	region and divi	sion, State, an	d metropolitan
	Non-HMD e	enrollment	Discha	arges	30-day post-adm	mission deaths	+
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMO enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
Virginia Metropolitan Rural	566,135 355,193 210,942	99.91 99.87 99.97	2,510 1,583 927	4.44+ 4.50+	2999.9 315.2	1.327+ 1.313+ 1.353+	3.27+ 3.46+ 2.97
West Virginia Metropolitan Rural	244,259 90,704 153,555	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1,224 495 729	4.99+ 5.49+ 4.70+	296.7 294.0 298.6	1.473+ 1.645+ 1.372+	3.26+ 3.59+ 3.06+
North Carolina Metropolitan Rural	689,138 346,905 342,233	ოთ დ თ დ თ 	2,064 976 1,088	3.00- 2.84- 3.16-	342.9+ 360.5+ 326.5+	0.980- 0.990- 0.990- 0.969-	2.58 2.58 2.58
South Carolina Metropolitan Rural	329,020 186,873 142,147	000 000 400 400	1,553 814 739	4.71+ 4.36 5.17+	2998.3 298.3 4.4	1.354+ 1.228 1.520+	2.80 2.82 2.78
Georgia Metropolitan Rural	561,716 313,319 248,397	999.71 99.54	2,653 1,483 1,170	4.77+ 4.81+ 4.72+	251.9- 235.7- 273.2	1.148 1.101 1.208	2.91+ 3.06+ 2.72
Florida Metropoiitan Rural	1,705,534 1,514,489 191,045	90.97 90.04 99.17	7,261 6,394 867	4.16+ 4.15+ 4.25	245.2- 245.2- 253.3	1.050 1.045 1.092	2.66 2.64 2.80
East South Central Metropolitan Rural	1,726,272 873,594 852,678	99.69.90.90.90.70.00.00.00.00.00.00.00.00.00.00.00.00	8,338 4,232 4,106	4.84+ 4.89+ 4.78+	275.5 263.3 288.4	1.271+ 1.244+ 1.298+	2.84+ 2.99+
Kentucky Metropolitan Rural	422,657 183,264 239,393	99.70 78.98 99.89	1,851 849 1,002	4.38+ 4.72+ 4.12	283.6 261.1 303.6	1.204	3.01+ 3.22+ 2.87
Tennessee Metropolitan Rural	550,327 342,007 208,320	აიი აიი ი ი	2,991 1,790 1,201	5.44+ 5.28+ 5.68+	278.9 265.0 300.7	1.451+1.360+	2.84 2.87 2.80
Alabama Metropolitan Rural	463,131 281,960 181,171	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1,982 1,234 748	4.29+ 4.40+ 4.12	270.2 254.8 296.2	1.080 1.055 1.121	2.85 3.06+ 2.54
Mississippi Metropolitan Rural	290,157 66,363 223,794	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	5.23+5.39+	265.5 288.8 258.1	1.330+ 1.534+ 1.271	2.59 2.49 5.39

Table 2. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enroliment	Dischar	sec.	30-day post-adm	mission deaths	- :
		As percent		Per 1,000	er 1,00		deaths per 1,000
Area of residence	Number	5	Number	701	discharges	- 6	persons
West South Central Metropolitan Rurai	2,584,974 1,570,297 1,014,677	99.74 99.59 99.97	10,877 6,478 4,399	4.18+ 4.12+ 4.27+	279.8 266.7 299.9+	1.157+ 1.102 1.241+	2.75 2.87+ 2.59
Arkansas Metropolitan Rural	321,739 100,966 220,773	96.66 86.66 56.66	1,459 432 1,027	4 4 4 4 5 3 0 4 4 6 4 6 4 6 3 9 4 6 9 4 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9	284.6 243.7 302.4	1.230 1.031 1.320+	2.91 2.92
Louisiana Metropolitan Rurai	415,968 268,137 147,831	& & & & Ø Ø Ø Ø Ø Ø Ø Ø Ø	2,347 1,545 802	5.80+	279.0 266.6 303.9	1.550 1.560 1.560 1.560	2.99+ 3.19+ 2.65
Okiahoma Metropolitan Rurai	378,716 180,038 198,678	988 986 986 986	1,596 690 906	4 8 4 8 9 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9	297.7 296.7 298.5	1.249+ 1.166 1.323+	2.93+ 2.03+ 2.84
Texas Metropolitan Rural	1,468,551 1,021,156 447,395	99.81 99.73 99.97	5,475 3,811 1,664	3.69- 3.71	273.7 263.8 297.3	1.007- 0.984- 1.060	2.60 2.75 2.29-
West Metropolitan Rural	4,539,951 3,642,859 897,092	93.08 91.96 97.88	14,543 11,710 2,833	8	298.1+ 297.4+ 301.0	0.973- 0.986- 0.912-	2.55- 2.58- 2.44-
Mountain Metropolitan Rural	1,200,638 720,893 479,745	94.36 92.10 97.98	3,874 2,301 1,573	3.12-3.13-	295.6 302.0 285.8	0.952- 0.985- 0.904-	2.23- 2.29- 2.13-
Montana Metropolitan Rural	97,248 21,173 76,075	0000	395 112 283	3.92 3.17 3.58	302.9 289.7 308.4	1.186 1.546 1.086	2.27- 2.69 2.15-
Idaho Metropolitan Rurai	109,822 18,471 91,351	99.77 99.90 99.74	2 39 4 4 5 5 5 5 5	2.56- 2.08- 2.65-	298.9 265.6 303.9	0.768- 0.539- 0.812-	2.20-2.10
Wyoming Netropolitan Rural	42,408 12,265 30,143	000 000 000 000 000	203 58 145	4 . 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	318.7 356.9 303.6	1.469 1.626 1.406	2.26 2.95 1.98-
Colorado Metropolitan Rural	266,663 201,737 64,926	94.73 95.23 93.22	709 538 171	2.64- 2.68- 2.55-	289.7 295.0 272.8	0.791- 0.816- 0.712-	2.23-2.25-2.18-

Table 2, Malignant for aged Medicare en

- + O F	deaths per 1,000	1.994-	2.34- 2.29- 2.46	1.32-1.37-	3.34+ 3.49+ 2.75	2.67 2.65 2.78	25.80 25.80 80 80 80 80	2.79 2.82 7.42	2.68 3.64 44 44	3.21 2.93 3.35	1.78-
mission deaths	Per 1,000 non-HMO enrollees	0.730- 0.638- 0.795-	1.070 1.096 0.999	0.481- 0.497- 0.441-	1.742+ 1.853+ 1.336	0.980- 0.989- 0.921-	0.912- 0.904- 0.932	0.877- 0.936 0.791-	1.018- 1.014- 1.073	0.888 0.697 0.986	0.6331 0.6681
30-day post-adm	Per 1,000 discharges	267.4 277.4 262.2	282.0 287.3 267.0	292.4 317.8 236.7	355.9+ 357.3+ 349.0	299.0+ 296.3+ 320.3+	315.6+ 313.8 320.7	302.9 311.9 288.6	296.8+ 293.7 350.6+	250.6 213.8 267.3	280.3 275.8 294.9
arges	Per 1,000 non-HMD enrollees	2.58- 2.16- 2.85-	888 6.68 485	1.60- 1.51- 1.83-	4 4 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6	3.15- 3.20- 2.84-	2.79- 2.79- 2.79-	2.85- 2.88- 2.81-	3.29- 3.31- 2.99-	3.35	2.15-2.27-1.84-
Disch	Number	334 113 221	1,324 963 361	212 144 68	4 & & & & & & & & & & & & & & & & & & &	10,669 9,409 1,260	1,309 973 336	882 518 364	8,227 7,758 469	60 116 44	191 144 47
enroliment	As percent of all enrollees	92.49 85.86 97.76	91.33 89.11 98.31	99.92 99.94 99.88	86.15 84.73 91.83	92.62 91.93 97.77	92.41 90.86 97.42	86.84 80.38 55.55	93.71 93.36 99.57	99.78 99.75 99.80	83.64 83.31 84.47
Non-HMD	Number	125,371 51,612 73,759	348,748 257,931 90,817	128,579 93,319 35,260	81,799 64,385 17,414	3,339,313 2,921,966 417,347	461,706 346,977 114,729	303,778 181,677 122,101	2,477,248 2,330,007 147,241	16,348 5,625 10,723	80,233 57,680 22,553
	Area of residence	New Mexico Metropolitan Rural	Arizona Metropolitan Rural	Utah Metropolitan Rural	Nevada Metropolitan Rural	Pacific Metropolitan Rural	Washington Metropolitan Rural	Oregon Metropolitan Rural	California Metropolitan Rural	Alaska Metropolitan Rural	Hawaii Metropolitan Rural

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (P<.01). SQURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 3. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical arca: United States, 1986

	Non-HMD	Non-HMO enrollment	Discharges	rges	30-day post-admission deaths	ission deaths	Total
Area of residence	Ne aber	As percent of all enrollees	Number	Per 1,000 non-HMD enroliees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000
United States	26,698,924	96.70	103,766	3.89	281.0	1.092	2.68
Northeast	6,276,897	98.04	24,790	4.00+	275.2	1.112	2.67
New England	1,569,313	96.20	6,045	3.94	283.3	1.122	2.73
	153,209	9	112		358.6+	1.189	2.87
Bangor, ME	16,035	> m 50 00 50 00 50 00	n ↔		429.3	1.278	3.19
Portiand, ME	52,846	· •	173		331.1	1.124	2.90
3 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	114.752	6	482	7	315.9		2.91
Basester ST	44,397	~	183	4.23	325.5	1.437	3.18
	29,738	9.5	123	Τ.	346.8	•	2.88
+	62, 781	00	257	7			2.92
Burlington, VT	10,422	99.91	40	3.93	475.4	1.844	
Manager	709.478	93.75	•	4.50+	274.2	.241	2.77
Boston MA	429,794	S	1,918	4.67+	271.3		2.93+
New Bedford, MA	65,540	œ	266	4.14	265.9		2.22-
Pittsfield MA	20.281	7	91	4.62	284.0		2.77
Springfield, MA	72,225	92.57	305	4.35	315.2	1.294	2.54
Worcester, MA	71,185	0	286	4.22	273.2	•	2.47
Record Ts	132.332	7.5	453	3.50	227.9-	0.802-	2.77
Providence, RI	132,332	97.59	453		σ.		
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	396, 761	97.56	1.268		270.5		2.53
Bridgebort, Cl	96,911	. 6			278.6		2.44
Hartford, CT	157,139	· On	511	•	276.9		2.48
New Haven, CT	102,964	95.31 99.70	329 87	3.24	243.0 281.4	0.782- 0.943	2.6 2.6 4.6 4.6

Table 3. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

As percent number of fall number non-HMD of all non-HMD of all non-HMD of all number stands and the Atlantic A.707.584 98.68 18.745 4.02+	B,745 A.02+ 8,745 A.02+ 8,213 3.90 125 3.94 125 3.94 519 4.51 69 4.55	Per 1,	4
Atlantic 4,707,584 98.68 18,745 4.02 NY NY NY NY NY NY NY NY NY N	8, 745 8, 213 125 125 613 603 1167	er 1,000 non-hmd scharges enrollees	deaths per 1,000 persons
N	2113 1125 611 611 69 69 7.67	272.6 1.108	2.64
NY	4466 1125 5119 601 601 167 167	1.0	.61
NY 135,576 99.96 5125 3.90 NY 13,651 99.96 65 5129 3.90 Ufford N NY 297,143 99.88 1,167 3.91 VEALUS, NY 297,473 99.88 1,167 3.91 PSIC, NY 30,481 99.89 151 PSIC, NY 30,481 99.89 151 PSIC, NY 30,481 99.89 151 PSIC, NY 30,481 99.90 151 City, NJ 46,725 99.90 181 3.91 NJ 46,706 99.92 181 4.91 NJ 154,009 99.95 181 871 881 NJ 16,382 96.17 891 871 871 871 871 NJ 16,382 99.95 174 871 871 871 871 871 871 871 871 871 871	125 519 61 69 69 767	274.4 1.146	3.27+
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Table 3. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD e	enroliment	Disch	arges	30-day post-admi	ission deaths	ota
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMG enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
North Central	6,901,975	96.39	25,457	3.71-	287.0	1.055-	2.59-
East North Central	4,745,430	97.76	18,137	3.83	287.4	1.092	2.66
Ohio	1,263,869	4.0	0 -	2.	275.0	1.172	2.88+
Akron, UH Canton, OH	51,895	h 01 .	4 6	9	52.	.88	4.
Cincinnati, OH-KY-IN	159,407	9.0	79	u	33.	50	± 00
Coeveland, Un	121,377	. 7	48	. 02	. 60	. 84	.2
Dayton, OH	103,547	9.0	30	۲. ۵	600	39	ກຕ
Hamilton, OH	19,579	7 O 7 O	W W	. 4	46.	4.8	· e.
Lorain-Elyria, OH	27,340	8.6	NU	٠. د	44.	. 56	0, 4
Mansfield, OH	15,230	ນ 00 ນ ດ	0 7	. o.	29.	.13	
- :	70,660	30.00	323	4.63 4.63	56.	22	٦.
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Indiana	623,062	7.8			294.1	1.118	2.81
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IN-KY	34,434	95.72	159	. 71	56.	.16	<u>.</u> ه
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Todianabolis, IN	118.407	. w			98.	. 50	. 2
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Lafayette, IN	11,228	თ. თ		۷.	52.	. 87	. 2.
South Bend, IN	33,170	. 6		ω.	27.	. 93	ω.
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Springfield, IL	-	ნ. ნ		. 7		30	?
See notes at end of table.							

Table 3. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical crea: United States, 1986

es of residence Michigan nn Arbor, MI		c iii c i iii c ii o	2012018	rges	30-day post-adm	mission deading	4:
Arbor. MI	Number	As percent of al-	Nember	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
Arbor. MI	2,44	8.9	3,826	3.87	292.0	1.112	2.62
	7,76	5.1	74	70	29.	, L	9 4
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SKEGON, MI	42,162	96.18	154	9	9 6	90	9.
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	900) Lr	1	62	117	æ
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en Bay, WI	19.180	- 10 - 10 - 10	104	0.4.6	0.010	000	2.05
_	70.0	, ,	100			, r.	7
	4,29		200	? 4		0.00	. 0
	1,00	יות מי	9 8	2		, (c	
	30,77		- (. 0			
Watree, WI	6,81	3.2	929	77.		5 6	. "
ij	0,50	9.0	Ø (200		2,0	
=	4.46	g.	On (3	. 6	7	: "
Wausau, WI	2,94	6.6	27	. 05	82.	э. Ф	10.
est North Central	2,156,545	93.50	7,320	3.44-	286.3	0.975-	2.45-
4	7 25	7 2	c	V.	15.	. 82	0
= +	0 0		2	26	26.	.38	.10
	77	. 4		9	08	.85	ε.
TOTAL MAN			. (1	9	80	76	۲.
OCTONOTO	12,585	10.07	900	2.20	0.664	1.000	1.34-
-	.,,,						
Iowa	4,05	9	1,117	2.80-	288.3	-962.0	2.35-
	9,32	9.9	S	9	oi.	96	Ņ
A-I	. 64	9.9	148	m .	:	304	u, c
H	90'0	4.5	ന	4		.:	. (
uque, IA	1,46	9.9	31	ω.		. 62	7
a City, IA	6,24	9.9	10	9	9	. 48	9
UX City, IA-NE	15,951	96.66	₩ •	. 18	-	. 63	20.1
	9,52	9.9	90	0	е Н	. 97	

Table 3. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD	enrollment	Disch	rges	30-day post-admi	ission deaths	42
	 m m p e	As percent of all	Z E E E E E	Per 1,000 non-HMG enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000
				•	٥	+	0
Fissori	655,875	po c	2,849	4.40+	128.0	0.235-	2.18
Columbia, mu	0,000	n a	101			.662	0
Jopein MU	15,273	7 2	101			.03	7
Kansas City, Mu-ko	12,513	. 0	45	60	2	.03	8
04. 10Sept . MC	283,630	7.4	1.278			.21	.2
Springfield, MO	27,676	6	9~4			. 76	9 .
		0	0	C	0.7	0.07	00
North Dakota	85,433	7 -		4 0	24.	3.4	37
BISHBICK, ND	8,100	7.4		٠ د		0	1,95
Grand Forks. ND	5,687	00.00	12	2.66	406.8	2	. 7
		- 1	- 1	•	1	0	C
South Dakota	96,216	ອດ. ອດ. ອດ.	3/8	3.9.4	0.162	1 397	3.50
Rapid City, SD	7,152		000	, c	o uć	0	. "
Sioux Falls, SD	13,275	מ	0	9		,	
20 C C C C C C C C C C C C C C C C C C C	209,910	8.5	654	۲.	310.4	971	2.49
Lincoln, NE	20,994		62	3.06	13.	96.	.57
Omaha, NE-IA	57,609	3	244	ო.	20		٥.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	307 706	a a	0	4		.01	4
	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	7.7)	94		.02	0.
TODERN KN	18,983	97.26	4	0	277.9	0.694	2.23
Sichita, KS	45,844	8.5	124	. 7		90.	٠.
South	8,980,101	97.94	38,976	4.32+	274.3	1.166+	2.81+
South Atlantic	4,668,855	96.31	19,761	4.21+	270.7-	1.133	2.83+
	70.054	0	Oac	0	64	90	Τ.
Wilmington, DE-NJ-MD	58,114	99.62	249	4.26	242.9	1.068	3.25
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	436 606	4	00	9.	4 9	.14	.09
Baitimore, MD	244.878	6.0	1,232	0	49.	.25	<u>ښ</u> ا
	17,051	99.00	100 c	4.78	261.2	1.231	1.73
Hagerstown, MD	14,522	D	C o	r.			•
District of Col. Washington, DC-MD-VA	66,196 261,121	99.75 99.05	210	3.33 3.65	203.8- 236.6-	0.694-	2.87
See notes at end of table.							

Table 3. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

- 6	deaths per 1,000	erson	3.27+	4.	Ξ.	. 2	. 79	9.	ω.		3.26+	.04	0		0	u		ņ,	<u>ب</u>	٠.	۳.	2.58	***	. 2	5	σ.	•	2.80	٠,٠	<u>،</u> د	? •	ţ	•	2.91+			•	•	•	•	•	•
ssion deaths	Per 1,000 non-HMD	- 0	1.327+	99.	. 35	.99	. 65	.227	. 28		1.473+	. 51	. 53	. 41	. 70	0	9.	410	.37	.09	. 59	1.152	. 68	. 75	. 75	.87		1.354+	9	9:	. 4.	20 (.0.	1.148	.86	34	18	6	9	9 6	ה	•
30-day post-admi	-	scharge	299.9	79.	68.	98.	75.	93.	18)	9	39.	84.	29.	53.			ŝ		à	0.1	ö	S.		5	270.7		298.3	. 60	90	22.	99	07.	51.	48.9	404.0	44	54.0				. 70
arges	Per 1,000 non-HMD	2						4.25		•	. 99	.01		. 32	5.19	- 1	00.	9	<u></u>	. 70	. 98	7	.09	æ	6.	3.36		4.71+	. 7.1	•			•		•	3.54	•	•	•	•	•	•
Disch		Number	2,510	S	62	93	-	357	0	4	C	20	2	00	111		2,064	04	4	6	40	0	4	S	165	42		1,553	-		9	4	4	2,653		47	030		01	0 10	7	611
enroliment	As percent of all	0	9.9	6	9.9	6.6	0	000	. 0		6	6	σ.	0	82.51		σ,	S.	6.	. 7	9	6	6	œ	œ	76.96		99.44	. 7	6	6.	σ.	0	7	0	1000		4 0	, (, (71
Non-HMD		Number	566,135	12.020	15,532	18,110	102 601	85,508	30,633	30,062	244.259	34.215	40,891	19,888	22,016		689,138	24,469	14,505	109,337	13,388	99.387	23,392	5,134	56.484	12,634		329,020	16,583	34,246	35,361	11,195	65,893	561.716	0 202	12,52	000	900° 00°	32,930	22,847	25, 329	25,338
		Area of residence		Charlotteswille, VA	V	•			. <	-	West Virginia	rieston. WV	Huntington WV-KY-DH	HUINE SERVESHEE	Wheeling, WV-OH		North Carolina	_	Burlington, NC	Charlotte, NC	Favettek' NC	٠,	H-CRO-C	LACKSON TIE.	Е	: ်ပ		South Carolina	Anderson, SC	Charleston, SC	Columbia, SC	Florence, SC	Greenville, SC	0.00	40 20 4	XD . V=00-X		_	?	10.	acon. GA	Savannan, GA

Table 3. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1985

	Non-HMD enroll	nrollment	Disch	scharges	30-day post-admi	ission deaths	- + + + + + + + + + + + + + + + + + + +
		As percent of all		Per 1,000	- L	Per 1,000 non-HMD	- e -
Area of residence	Number	10	Number	0	scharge	101	e r s
	1,705,534	6.0	7,261	4.16+	246.2-	1.050	2.66
Bradenton, FL	42,906	89.66	18	4.20	'n.	.37	. 5
aytona Bea	62,616	2.9	283	4	٠,	. 15	٠. د
Fort Lauderdale, FL	181,839	1.0	812	4	en :	90.	4.
	61,428	9.6	232	.5	m	. 74	٠.
Fort Pierce, FL	41,198	9.2	173	6.	-	.01	4.1
FT. Walton Beach, FL	10,169	9.8	32	6.	e e	.77	٠,
	16,758	9.5	71	Ξ.	8.	. 24	4
Jacksonville, FL	80,895	8.2	389	œ	7	.01	٠.
Lakeland, FL	55,495	9.5	209	9.		. 93	٦,
Melbourne, FL		9.7	278	. 63	7.	. 26	. 2
Miami-Hialeah, FL	168,502	9.5	753	9.	'n	.08	w.
	23,433	9.7	87	ε.	7	. 14	٦.
Deala. FL	31,367	9.5	121	'n.	ς.	. 86	
Orlando, FL	90,604	8.5	375	°.	5.	. 14	9
Panama City, FL	11.817	9.7	81	<u>د</u>	m	. 83	. 5
Pensacola, FL	29.972	9.6	119	6.	7	. 86	***
Sarasota	77,895	9.6	299	9.	å	. 03	9.
Tallahassee, FL	17,414	7.8	09	4.	Ġ	. 80	<u>ښ</u> .
Tampa, FL	323,951	7.0	1,324	٥.	œ.	. 02	တ
West Palm Beach, FL	139,729	5.2	51	. 2	7	& 6	₹.
East South Central	1,726,272	99.80	8,338	4.84+	275.5	1.271+	2.84+
							-
	422,657	99.70	1,851	4.38+	283.6	1.204	
	31,008	80 e	N		9 0	0 0	
	107,485	9.5	0 4		. 0 6	000	. 0
Owensboro, KY	10,319	ת ה	*				
Tennessee	550,327	9.6	O)	.44	æ	4	8
,	50,061	9.9	273	. 2		***	٠. د
larksville	12,541	9.9	51	0,1	œ i	<u>ص</u> (۳, ۲
	10,064	6.6	4 (œ (٠	40	- 4
Johnson City, TM-VA	55,068	ი ი	NO	0 4		. c	0
Knoxville, TN	70,970	20 C	o a	. 0	260.3	1.5284	3.00
RODE VILLE TN	92,994	90.00	404	5.37+		.337	0.
See notes at end of table.							

Table 3. Majignant neoplasms of trachea, bronchus & jung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

sion deaths	Per 1,000 deaths non-HMD per 1,000 enrollees persons	080	217	1.018	103	073		3.5	. 758	.181 2.9	.015 3.2	.255 3.4	0	. 530+	1.755	.281 2.6	.846 2.8		1.157+ 2.75	.230 2.9	757 2.2	117	2 045	000	1.7	.550+ 2.9	2.5	2.2	3.2	236 3.0	870 3.4	3.1	.592+ 3.3	1.509 3.42		.249+ 2	.954 3.3	3.0	2.7	
30-day post-admis	Per 1,000 discharges	40		253.0		, L		6	94.	36.	57.	55.	L G	00	20.	41.	323.0		279.8	84	25	. 4	0.000		9	79.	40	79	20	58	0 00	17.	55	310.4		97.	61.	483.8	51.	
arges	Per 1,000 non-HMO enrollees	0	٧.	4 25			ŗ	Ξ.	?	?	0.	0.	•	Ņ	σ.	e.	60.9		4.18+	4	42		7000	•		4			α	ο α	9 4		•	5.10		2	4	3.11	9	
Disch	Number	0	706 1	AFA	۶ د	1 1	0.0	09	~	9	119	9	i		9		40		10,877	4 5		200	יי מיי	T **	4	4	. (4	181	0	1.5		40	10	184	•	1,596	4	26	4	4
enrollment	As percent of all enrollees	•	א מ מ	ה כ ה כ	'n	200	יוכ	6.6	σ.	6.6	6.6	99.99		6.0	6.	6.6	88.00	•	99.74	a		א א א	20 °	3) (3) (D)	o		'n a		0.0	, 0			000	1	0	0	0000	4	
n-HMO	S E E E E E E E E E E E E E E E E E E E	4	463,131	13,124	108,346	12,690	16,687	14,295	17,137	50,513	29,832	13,604		0,15	18,079	5.30	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		2,584,974	221 720	2 6 7 7 7	11,803	21,413	000,000	11,012	415 069	10000	10,01	, c	13,301	14,020	14,549	110,010	36.822		378.716	8 215	R 221	000	
No Not the state of the state o	An and and and and and and and and and an			AL.	Bringham, AL	. '	Florence, AL	Gadsden, AL	Nuntsville, AL			Tuscaloosa, AL		Mississippi	Biloxi-Gulfport, MS	ankson MS			West South Central		000=04-1	Fayetteville, AR	Fort Smith, AR-UK	Little Rock, AR	Pine Bluff, AR		LOUISIBIA	Samories, CA	מקייים איייים איייים	rouma-inibodaux, Lx	Latayere, LA	Estate Clarinos, LA	Mon Dales - A	P	40.040.0	Oktabona	30 F: Eu	Lauton OK	0	THE PARTY OF THE P

Table 3. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD enrollme	nrollment	Disch	arges	30-day post-adm	mission deaths	4
		As percent of all		Per 1,000 non-HMD	Per 1,000	O.E	۲. ت.
Area of residence	Number	10	Number		scharge	-	erson
٧ « « •	1,468,551	80	5,475	9.	73.	00.	9.
AD:-ese TX	•	9.6	80		05	. 5	٠.
Amarillo, TX	19,063	<u>ق</u>	41	ພໍເ	50 C	70.	
Austin, TX	47,578	G	/ G T	ۍ <u>د</u>	. 4 . 4	000	- @
Beaumont, 1X	42,323	ם ני	n 4	. «	47	26	S.
Brazoria, IX	20,480	0 60 0 00 0 00	60 /	3.67	412.0	1.586	2.26
C C C C C C C C C C C C C C C C C C C	50.00	0	20	8	64.	8	6.
Corpus Christi. TX	28,417		2	. 2	16.	14	. 22
	172,118	6.	0	٠Ů	62.	. 92	۳. (
El Paso, TX	37,292	6.6	0	٠,	. 20	20 c	N 0
Fort Worth, TX	97,947	<u>ص</u> (m (4.0	0 0	y c	, 0 4
Galveston, TX	19,376	ق	707	ņ	 9 0 9 7	122	76.
HOUSTON, IX	101,932	. 0	2	. 0	07.	40	4
	8.421	. 01	28	12	04.	.40	7
Condition 1X	20,547	6.	28	80	23.	. 63	60.
Lubbock, TX	18,957	6.	220	0.	60.	9	9 "
McAllen, TX	27,402	α.	g (ຕຸ	. 20	20.0	
Midland, TX	7,362	<u>ن</u>	31	7.3	. 62	י ער	٠, ٥
Odessa, TX	9,207	9.6	m ⊲	4 0	- a	. u	9
Sam Angelo, TX	11,213	ي د	9 G	ם יכ	200	9 60	ຸດ
Y - 0	101,909	, 0) W	. m	06.	68	1
TXAB	15,315	. 0	98	9	38.	.36	. 7
	18,223	6	74	0	29.	. 92	9
Victoria, TX	6,871	6	40	9 .	17.	-14	-:1
	23,624	6.6	89	<u>ق</u>	75.	5,	
Wichita Falls, TX	14,462	σ.	62	, ,		-	t.
West	4,539,951	93.08	14,543	3.14-	298.1+	0.973-	2.55-
Mountain	1,200,638	94.36	3,874	3.12-	295.6	0.952-	2.23-
	97.248	0		6	8	. 18	
E (12,097	99.88	60	4. R.	271.5	1.395 1.746	2.49 9.96
, a	0.0 6	h h					
Idaho Boise City, ID	109,822	99.77 99.90	294	2.56-2.08-	298.9 265.6	0.768-	2.20-
	•	•		4	α	46	C
Wyoming Casper, WY Cheyenne, WY	42,408 5,379 6,886	1 1 1 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 6 6 5 7 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4.35 2.35 3.35 3.35 3.35	370.4 344.3	1.863	3.28
See notes at end of table.							

Table 3. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical crea: United States, 1986

4	deaths per 1,000 persons	2.23- 2.08- 2.35- 2.35- 1.47- 2.57	1.94- 2.07- 2.24 1.41-	2.34- 2.27- 2.37	1.32- 0.88- 1.47-	3.34+ 3.76+ 2.80	2.67	22.22.22.22.23.33.33.33.33.33.33.33.33.3	
ission deaths	Per 1,000 non-HMO enrollees	0.791- 0.602 0.564- 0.784- 1.120 0.682 1.485	0.730- 0.565- 0.836 0.702	1.070 1.162 0.923	0.481- 0.547- 0.487-	1.742+ 2.222+ 0.976	-086.0	0.912- 0.729 0.772 0.911 1.171 0.803 0.634- 1.127 1.127 0.891 0.891	
30-day post-admi	Per 1,000 discharges	289.7 430.2 252.5 258.4 395.8 473.9	267.4 262.8 369.0 354.1	282.0 289.6 279.8	292.4 589.2 286.5	355.9+ 368.0+ 308.5	299.0+	315.6 295.6 334.3 334.8 3311.7 400.7 327.2 361.9 171.0	
arges	Per 1,000 non-HMD enrollees	2.56 1.955 1.925 2.745 3.20	2.58- 2.72 1.85-	60.00 440.00 440.00	1.60-	4.60 5.66+ 2.92	3.15-	2.22 2.39 2.42 2.55 2.55 2.55 2.55 2.55 2.55 2.55	
Disch	Number	709 20 4 48 351 42 27 50	334 70 27 16	1,324 736 227	212 16 128	2403 245 59	10,669	1,309 38 38 37 474 1113 40 88 88 71 71 287	
enrollment	As percent of all enrollees	94.73 97.98 95.03 99.10 99.62	92.49 81.01 93.94	91.33 86.74 96.06	000 000 000 000 000	86.15 82.98 89.17	92.62	99999999999999999999999999999999999999	
States, 1986 Non-HMD e	E ⊞De n	266,663 15,143 24,899 119,624 15,089 11,610	125,371 33,783 9,375 8,454	348,748 187,381 70,550	128,579 16,076 77,243	61,799 45,252 19,133	3,339,313	461,706 13,629 15,439 14,254 15,254 159,828 41,237 17,048 22,738 303,778 303,778 303,778 303,778 303,778	
stistical area: United	Area of residence	Colorado Boulder-Longmont, CO Colorado Springs, CO Denver, CO Fort Collins, CO Greeley, CO		Arizona Phoenix, AZ Tucson, AZ	Utah Provo-Orem, UT Sait Lake City, UT	Nevada Las Vegas, NV Reno, NV	Pacific	Washington Bellingbam, WA Bremerton, WA Olympia, WA Richland, WA Spokane, WA Tacoma, WA Vancouver, W	

	Non-HMD	enroliment	Disch	Discharges	30-day post-admission	nission deaths	Total
		As percent		Per 1,000	-	Per 1,000	deaths
Area of residence	Number	enrollees	Number	en rollees	discharges	enrollees	persons
6	2 477 248	m	8.227	2	296.8+	1.018-	2.66
4	167.171	6		7.	307.5	1.187	2.70
) 1 1 1 1	44 959	0	163	4	321.5	1.131	2.81
	27 102	0	100	3	368.4	1.265	2.87
2 C	58 425		148	4	316.1	-962-0	2.14-
U	677, 939	, ,	2.439		271.0	1.048	2.62
, 0 < 0	12 462			7	344.3	1.314	3.50
	22,52	α	0	α,	373.1	1.000	2.54
30 CO TO	188.258	0	493	9	341.1+	-606.0	2.53
0 4	40,488	e cc	211	2	229.5	1.025	2.44
	17 796	0	57	0	340.5	1.043	3.76
(L) 67.0700	203,246	0	407	4	286.5	966.0	2.57
Control de	120,273	, ,	405	7	320.7	1.072	3.00
	29,131	6	92	3	230.9	0.611-	2.18
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	205,402	-	716	4	297.2	1.094	2.83
00 00 00 00 00 00 00 00 00 00 00 00 00	163, 753	0	533	7	281.6	0.964	2.50
	105,258	6	261	4	305.8	-008.0	2.32
Canta Barbara CA	38.021	6	100	9.	248.5	0.681-	2.59
	24.640	0	a G	ო.	280.1	0.687	2.32
Charles Const. CA	44.775	6	148	3.26	298.4	1.062	3.26
Attorition Of the Control of the Con	40,855	-	136		332.4	1.009	2.72
Value 10 . CA	35.778	8	115	7	342.4	1.080	2.66
V. S.	28.811	6	06	٥.	320.1	0.951	2.26
Yuba City, CA	11,835	9	45	9 .	404.1	1.569	3.16
	16.348	7.		3.35	250.6	0.888	3.21
Anchorage, AK	5,625	99.75	16	2.66	13.		σ.
 En 8	80.233	60 60 40	191		280.3	0.633-	1.78-
Honolutu, HI	57,680	83.31	144	2.27-	275.8	0.668-	1.93-

Table 3. Malignant neoplasms of trachea, bronchus & lung: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMDs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01).
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).



Stroke, a major illness among the elderly, is the third leading cause of death (following heart disease and cancer), with a rate of 3.87 deaths per 1,000 aged persons. Strokes accounted for 319,368 hospital stays in the aged Medicare population, 3.7 percent of total stays in 1986. The discharge rate for stroke was 11.96 per 1,000 aged Medicare enrollees. The 30-day post-admission death rate per 1,000 discharges was 197.7, or approximately 20 percent of all stroke discharges (Table 1).

Age and sex patterns

In each age group, the discharge rate for stroke was greater for men than women. The difference in the discharge rate between men and women, however, decreased with age, from 32 percent more for men than women in the age group 65–74 years to 5 percent more for men in the age group 85 years or over. For both sexes, there was a notable increase in hospitalizations for strokes as age increased. The discharge rate for men and women combined in the age group 85 years or over was 3.5 times the rate for those 65–74 years (25.50 versus 7.36).

The death rate per 1,000 aged persons in the general population was 24 percent higher for men than for women in the age group 65–74 years and 15 percent higher in the age group 75–84 years; however, in the group 85 years or over, the rate for women was

NOTE: Stroke is ICD-9-CM codes 430-432, 433.0,

(1.49 deaths per 1,000 persons). This tenfold or over (14.89 deaths per 1,000 persons) was difference in stroke death rates for the oldest The death rate for stroke increased markedly with age. The rate for persons aged 85 years difference in population death rates between men and women for stroke was less marked. Compared with the other leading causes of and youngest age groups was greater than 10 times the rate for persons 65-74 years oldest and youngest age groups for heart the difference in the death rates for the disease (sevenfold difference) or cancer death-heart disease and cancer-the 9 percent higher than that for men. (twofold difference).

Rates for 30-day post-admission deaths per 1,000 discharges for stroke increased with age. These rates were similar for men and women.

Patterns by race

The overall discharge rate for stroke (discharges per 1,000 enrollees) was 44 percent higher for black persons than for white persons (16.77 versus 11.61). This higher discharge rate for black than white persons held across all age-sex groups except men 85 years or over.

The overall population death rate (deaths per 1,000 aged persons) for black persons was 23 percent higher than that for white persons. This pattern of higher death rates for black persons held for both men and women in all age groups except 85 years of age or over.

Except for men 65-74 years of age, the 30-day post-admission death rate per 1,000 discharges was slightly lower for black than white persons in all age groups and across both sexes. Although black men 65-74 years of age had a higher 30-day post-admission death rate per 1,000 discharges than white men that age, the difference was small.

Variations by geographic area

Tables 2 and 3 contain data on utilization and mortality by geographic area. The tables are broken out by U.S. census region, division, and State. Data on metropolitan and rural areas within each State are shown in Table 2, whereas data at the metropolitan statistical area (MSA) level are shown in Table 3. Figures 1–3 were derived from the data in these tables.

Discharge rates

The States with the highest discharge rates for stroke per 1,000 enrollees were generally in the South (Figure 1). The States with the lowest discharge rates per 1,000 enrollees tended to be in the West. Discharge rates by State ranged from a high of 15.10 discharges per 1,000 enrollees in Georgia to a low of 8.55 in Colorado (Table 2). The variation in discharge rates by MSAs and rural areas across and within U.S. census divisions is shown in Figure 2. The East South Central Division had the highest median discharge rate, and the Mountain Division had the

Population death rates

Most of the States with the highest population death rates per 1,000 persons for stroke were in the South; the States with the lowest population death rates were scattered throughout the country (Figure 3). As noted earlier, the South was also the area with the highest discharge rate for stroke. The population death rate by State ranged from a high of 5.40 deaths per 1,000 enrollees in South Carolina to a low of 2.64 in

Correlations between rates

30-day post-admission death rates. However, 30-day post-admission death rates per 1,000 persons. This positive relationship between discharge rates per 1,000 enrollees and the discharges and the population death rates. Correlation coefficients were computed population discharge rate in an area for a between the discharge rates and both the specific condition is related, in part, to a 0.38) relationship was found between the the discharge rates and population death rates supports the hypothesis that a high No relationship was found between the a statistically significant but weak (r =discharge rates per 1,000 enrollees and population death rates per 1,000 aged

Urban-rural patterns

Central, South, and West Regions but higher discharges was higher in the rural areas than population death rate was slightly higher in Northeast and the South, but the discharge areas was slightly higher than the discharge areas than for the MSAs combined. Across the rural areas than in the MSAs combined In the Nation as a whole, the discharge rate, the 30-day post-admission death rate death rate were all slightly higher for rural census regions, this pattern held true only for the South. The discharge rate in rural rate in rural areas was lower in the North per 1,000 discharges, and the population in MSAs in the Northeast Region. The Central and West Regions. The 30-day in the MSAs combined in the North post-admission death rate per 1,000 rate for the MSAs combined in the in all regions except the West.

t a	per 1,000	3.87 1.49 5.05 14.89	3.58 1.67 5.49 14.00	4.07 1.35 4.79 15.25	3.83 1.38 4.95 15.17	3.54 1.5.4 1	4.05 1.25 4.69 15.49	4.72 2.71 6.64 12.59	4.73 3.05 7.06 11.49	2.46
ission deaths	Per 1,000 non-HMG enrollees	2.36 1.13 7.12	2.42 1.28 3.92 7.80	2.33 8.05 86.05	2.33 1.07 7.23	2.38 1.21 3.87 8.05	2.30 0.96 3.01 6.92	3.01 1.85 4.16 6.73	3.11 2.09 4.62 6.61	2.1.0
30-day post-admi	Per 1,000 discharges	1997.7 153.0 198.4 279.0	193.4 149.8 207.8 295.6	200.7 156.3 192.0 272.5	200.8 153.7 200.4 283.2	195.8 149.2 209.6 300.9	204.4 158.4 194.3	179.3 150.2 187.2 240.0	181.7 153.4 199.1 256.9	177.7
80 DL R	Per 1,000 non-HMD enrollees	11.96 7.36 25.50	12.50 8.52 18.87 26.39	11.60 6.45 15.90 25.16	11 11 01 02 02 02 03 03 03 03 03 03 03 03 03 03 03 03 03	12.14 8.10 18.48 26.74	11.26 6.03 15.47 25.05	16.77 12.34 22.21 28.05	17.11 13.61 23.22 25.73	11.38
Disch	Number	319,368 119,002 136,204 64,162	133,153 60;187 54,957 18,009	186,215 58,815 81,247 46,153	273,736 98,637 118,143 56,956	114,012 50,381 47,570 16,061	159,724 48,256 70,573 40,895	33, 14,969 12,969 5,484	13,568 7,071 5,002 1,495	19,848
nrollment	As percent of all earollees	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	96.01 95.90 97.22	97.16 96.66 97.51 98.74	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	995.99	97.07 96.55 97.42 98.69	97.86 97.54 99.11	97.49 97.28 97.67 98.74	98.10
Non-HMD e	Number	26,698,924 16,162,594 8,020,447 2,515,883	10,650,991 7,056,445 2,912,366 682,180	16,047,933 9,106,149 5,108,081 1,833,703	23,574,066 14,207,064 7,134,499 2,232,503	9,391,016 6,216,472 2,573,989 600,555	14,183,050 7,990,592 4,560,510 1,631,948	1,991,943 1,213,014 583,429 195,500	792,788 519,305 215,401 58,082	1,199,155
	Age, sex, and Tace	11 per 65-7 75-8 85 y	Men 65-74 years 75-84 years 85 years or over	₩omen 65-74 years 75-84 years 85 years or over	White 65-74 years 75-84 years 85 years or over	Мен 65-74 years 75-84 years 85 years of over	Women 65-74 years 75-84 years 85 years or over	Black 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years

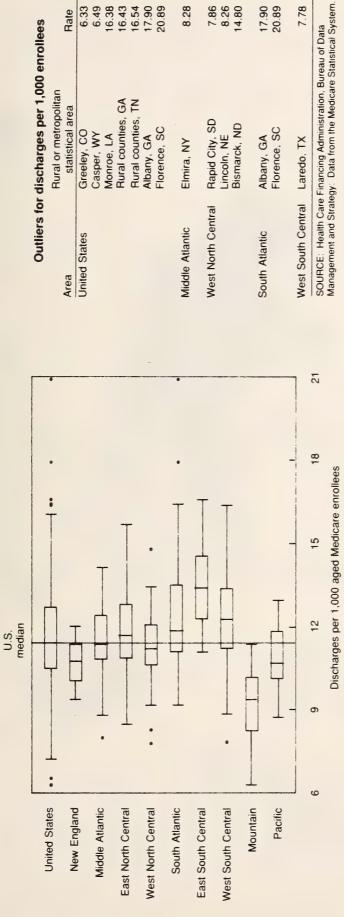
(1)Includes persons of other races in addition to white and black persons.
NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (Population).

Discharge rate 12.80 to 15.10 10.67 to 11.60 11.61 to 12.79 8.55 to 10.66 D.C.

Figure 1. Stroke: Short-stay hospital discharges per 1,000 aged Medicare enrollees, by State: 1986

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

Figure 2. Stroke: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by division: United States, 1986



6.49 16.38 16.43 16.54 17.90 20.89 8.28 7.86 8.26 14.80 17.90 7.78 Rural or metropolitan Rural counties, GA Rural counties, TN statistical area Rapid City, SD Bismarck, ND Greeley, CO Casper, WY

2.64 to 3.52 4.29 to 5.40 3.53 to 3.86 3.87 to 4.28 Death rate D.C.

Figure 3. Stroke: Deaths per 1,000 aged population, by State: 1986

SOURCES: Population death rates were derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 2. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	OMMINON	enroliment.	Disch	arges	30-day post-adm	mission deaths	
)	:))				Total
		٠.		1.1			eaths
		of all		DWH-HOU	er 1,0	101	per 1,000
Area of residence	Number	-	Number	101	discharges	0	erson
444	700 003 30	7	36	0	97	36	8
	10 262 284		5 7 5	1.69	4.46	.268	3.75-
Reral	7,335,640	99.16	93,611	12.66+	205.5+	9	. 2
						1	•
Northeast	6,276,897	98.04	71,789	11.39-	4.401	2.217-	0. 40. 0
Metropolitan	,564,64	7.8	3,36	1.34	- -	208	
	712,24	9.6	,42	8	92.		Σ.
			0	1	0	700	A 1
New England	1,569,313	96.20	17.082	10.72-	109.5-	1.00.0	1 000
Metropolitan	_	2.6	4,57	90.0			000
Rural	226,427	9.5	, 51	. U	a a	. 103	
	4 200	0	13	22	3	900	9
maine	155,203	0000	7 0 0	10.01	186.1	1 846-	3.62
Metropolitan	82,345		n 4			0 40	
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4444	114 752	α	0	0.73	96	-	9
	74 135		774	10.38-	190.7	2.052	3.69
	40.617	0	. 6	1.38	05.	ε,	9
20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -			•		1		
Vermont	62.781	9.8	0	6.	174.1	1.949	3.49
Metropolitan	10.422	9.9		98.6		0.0	0
	52,359	08.65	588	8		. ¥2	œ.
				,		0	•
	709,478	93.75	8,115	11.13-	187.1	2.082-	3.41-
Metropolitan	659,025	ا 100	ű	01.1		141	9 0
Rurai	50,453	ອ ເ	5 4 0		0	7	9
	6	7	2	4.1	80.		. 27
Metropolitas	120,226	ۍ د	1.522	4		2.082	3.27-
3	0	0.00		0.00	_		•
		1		6	9	6	C
	396, 761	7.5	9			9 0	•
Metropolitan	384,627	00.76		11.40	220.7	0.689	3.80
- 6-3	12,134		-	•			•
Middle Atlantic	4,707,584	8.6	. 7	11.62-	196.1	2.278-	3.43-
Metropolitan	4.221.762	8.5	8,79	1.56	96.	. 267	.37
Rurai	485,822	99.16	5,91	2.5	94.	.37	o.
3	0 7 7	0	23	7.0	n n	117	22
Mew York	2,143,249	ם מים	000		מי	10	٠.
Barral Baral	220.878	60.00 60.00	2.558	11.41	194.7	223	.15
See notes at end of table.	•						

See

Table 2. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

States, 1986	4	deaths per 1,000 persons	3.52-0.00	3.69- 3.66- 3.81	3.95 3.89 4.07	3.96 3.92 4.09+	3.97 3.91 4.16	444	8.64 8.00 000	3.783 3.783 3.059	8.8.9.01 1.00.00 1.00.00	3.93 3.78 4.05+	4.28+ 4.20 4.39+
ties: United	ission deaths	Per 1,000 non-HMO enrollees	2.431 2.431 0.000	2.415 2.397 2.509	2.371 2.337 2.426	2.368 2.366 2.372	2.343 2.307 2.467	2.552+ 2.547 2.559	2.369 2.387 2.317	2.349 2.242	2.263 2.242 2.294	2.238- 2.479	2.378 2.191 2.543
and rural coun	O-day post-admi	Per 1,000 discharges	203.6 203.6 0.0	192.6 192.2 194.9	196.0 191.0- 204.5+	194.3 191.6- 201.7	193.3 188.0- 212.6	203.5 205.8 199.8	189.9 189.3 191.6	192.5 189.2 204.2	199.1 196.6 203.0	199.5 188.9 207.2+	215.5+ 206.4 222.9+
metropolitan	rges 3	Per 1,000 non-HMD enrollees	11.93	12.58+ 12.52+ 12.89+	12.08 12.28+ 11.75	12.22+ 12.41+ 11.74	12.25	12.57+ 12.41 12.85	12.46+ 12.61+ 12.00	12.21 12.62+ 10.91-	11.39- 11.50 11.21	11.79	10.91- 10.60- 11.18
on, State, and	Discha	Number	10,752 10,752 0	20,392 17,035 3,357	84,528 54,122 30,406	57,874 42,548 15,326	15,301 12,059 3,242	7,816 4,925 2,891	15,855 11,989 3,866	11,801 9,251 2,550	7.101	26,654 11,574 15,080	4,621 2,133 2,488
region and divisio	enrollment	As percent of all enrollees	97.84 97.84 0.00	98.75 98.56 99.78	96.39 95.22 98.51	97.76 97.13 99.47	000 000 000 000 000	97.86 97.01	95.90 94.73 99.68	96.86 90.00 94.00	99. 99. 99. 99.	93.50 88.82 97.51	77.30 67.07 89.55
, by census	Non-HMD e	Number	916,155 916,155 0	1,648,180 1,383,236 264,944	6,901,975 4,398,761 2,503,214	4,745,430 3,453,558 1,291,872	1,263,869 987,528 276,341	623,062 399,457 223,605	1,265,011 952,934 312,077	982,444 744,347 238,097	611,044 369,292 241,752	2,156,545 945,203 1,211,342	397,258 187,915 209,343
te for the aged population		Area of residence	New Jersey Metropolitan Rural	Pennsylvania Metropolitan Rural	North Central Metropolitan Rural	East North Central Metropolitan Rural	Ohio Metropolitan Rural	Indiana Metropolitan Rurai	Illinois Metropolitan Rural	Michigan Metropolitan Rural	Wisconsin Metropolitan Rural	West North Central Metropolitan Rural	Minnesota Metropolitan Rural

of table

end

notes at

See

Total deaths per 1,000 4.22+3.97+ 3.70 3.16-4.11+3.85 2.64-2.43-2.99-3.82 3.70 4.94+ 3.35-3.93 9.93 9.93 3.86 3.68 4.10 3.52 3.89 3.77 30-day post-admission deaths Per 1,000 non-HMD enrollees 2.162-2.041-2.220 2.440 1.881-2.700 2.563+ 2.334 2.961+ 2.450+ 2.256-2.933+ 1.510-1.510-0.000 2.470 2.374 2.603 2.112 1.719 2.254 2.497 2.495 2.498 2.137 1.939 2.476 2.362 1.799 2.504 discharges Per 1,000 186.7-183.4-191.1 159.6-136.7-167.3 219.2 181.7 234.9+ 216.3+ 211.7 219.3 200.2 195.1 207.7+ 200.5 195.6 210.5+ 175.1-171.5-209.7 160.2-160.2-0.0 194.6 176.5 204.0 195.0 178.2 198.4 189.7 178.8 206.6 Per 1,000 non-HMD enrollees 13.15+ 12.92+ 13.46+ 12.27+ 11.58-14.00+ 11.06-11.39 10.90-12.83+ 12.01 14.28+ 10.04-12.79 12.43 12.93 11.67 10.06 12.09 11.00-10.54 11.41 11.75 11.19 11.28 10.90 11.93 12.17 12.20 11.86 Discharges 114,225 68,309 45,916 4,692 1,604 3,088 8,875 5,080 3,795 1,185 210 975 56,231 37,782 18,449 5,194 4,705 489 2.449 762 1.687 3,691 umber As percent of all enrollees 99.37 98.24 99.96 98.17 96.99 99.88 98.28 98.14 98.34 99.59 99.92 99.51 98.52 95.86 99.91 95.82 93.24 97.63 96.31 94.94 99.84 99.09 99.09 99.05 99.75 99.75 0.00 97.94 96.87 99.91 enroliment Non-HMD 8,980,101 5,757,016 3,223,085 4,668,855 3,313,125 1,355,730 404,057 136,818 267,239 655,875 383,255 272,620 85,433 22,964 62,469 96,216 20,427 75,789 209,910 70,076 139,834 307,796 123,748 184,048 70,251 44,355 25,896 436,606 395,091 41,515 66,196 66,196 0 Number Delaware Metropolitan Rural District of Col Metropolitan Rural Kansas Metropolitan Rural Metropolitan Rural Maryland Metropolitan Area of residence Metropolitan Rural Metropolitan South Dakota Metropolitan Metropolitan Rural Metropolitan South Atlantic Metropolitan North Dakota Nebraska Missouri Rural Rural Rural Rurai IOWa South

Table 2. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

Table 2. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division. State, and metropolitan and rural counties: United States, 1986

ر د د	deaths per 1,000 persons	4.33+ 4.139+ 5.74+	4.19 4.10 4.25	4.81+ 4.63+ 4.99+	5.40+ 4.80+ 6.17+	5.23+5.13+	3.41- 3.39- 3.63	4 . 63+ + . 34+ + . 92+	4.55+ 4.27 4.75+	4.68+ 4.48+ 5.02+	4.74+ 4.42+ 5.22+	3.51
mission dea	Per 1,000 non-HMO enrollee:	2.527 2.441 2.668+	3.060+ 2.929+ 3.136+	2.557+ 2.227 2.893+	2.898+ 2.445 3.483+	3.111+ 2.907+ 3.364+	2.151- 2.129- 2.339	2.870+ 2.544+ 3.191+	2.724+ 2.416 2.954+	2.8877+ 2.588 3.346+	2.761+ 2.570 3.047+	3.227+2.564
30-day post-ad	Per 1,000 discharges	198.1 198.5 197.4	228.1+ 219.8 232.8+	207.9 200.1 214.4+	215.3+ 202.2 228.7+	207.1 207.7 206.6	0.00 0.00 0.00 0.00	200.5 193.8 206.0	204.6 208.5 202.3	193.1 188.7 199.0	192.8 187.9	220.0+
harges	Per 1,000 non-HMD enrollees	12.85	13.42+ 13.14+ 13.58+	12.26 11.07- 13.48+	13.71+ 12.33 15.51+	15.10+ 14.05+ 16.43+	10.91- 10.76- 12.14	14.37+ 13.23+ 15.52+	13.37+ 11.74 14.62+	14.80+ 13.74+ 16.54+	14.39+ 15.24+	14.97+
Disc	Number	7.106 4.278 2,828	3,253 1,175 2,078	8,162 3,720 4,442	4,289 2,184 2,105	8,262 4,267 3,995	18,505 16,292 2,213	24,800 11,448 13,352	5,662 2,146 3,516	8,089 4,668 3,421	6,612 3,841 2,771	4,437
enroliment	As percent of all enrollees	99.91 99.87 99.97	886 6 686 686 686 686 686 686 686 686	ოთ დ თ დ თ თ თ თ თ თ თ		000 000 7.71 60.00	90.97 90.04 99.1	000 000 000 000 000	00°.00°.00°.00°.00°.00°.00°.00°.00°.00°	000 000 000 000 000	တတ်တ	86.66 66.66
Non-HMD	Number	566,135 355,193 210,942	244,259 90,704 153,555	689,138 346,905 342,233	329,020 186,873 142,147	561,716 313,319 248,397	1,705,534 1,514,489 191,045	1,726,272 873,594 852,678	422,657 183,264 239,393	550,327 342,007 208,320	463,131 281,960 181,171	290,157
	Area of residence	Virginia Metropolitan Rural	West Virginia Metropolitan Rural	North Carolina Metropolitan Rural	South Carolina Metropolitan Rural	Georgia Metropolitan Rural	Florida Metropolitan Rural	East South Central Metropolitan Rural	Kentucky Metropolitan Rural	Tennessee Metropolitan Rural	Alabama Metropolitan Rurai	Mississippi Metropolitan

Table 2. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

+	deaths per 1,000	200	4 4 4 . 16 + 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	. 51	7.	3.80 4.71÷		70	٥,٢	4	3.95	9, 0	T	77	۲.	0	.35	3.24-		.86	4.15	•	. w.		7 .	3.61	œ	.24	3.30- 3.06-	
ission deaths	Per 1,000		2.553+ 2.381		2.413	8.	. 57	2.445 2.805+		2.664+	974.	0	2.473+	. 354	. (3	168	7	. 142	. 945	1.845-	. 091	.17	1.835	900	1.990-	095	18	1.925	. 28	654	1.591-	
30-day post-admi	Per 1,000	0 0 0 0 0 0	199.6 195.0		210.0 195.4	16.	83.	182.1	,))	197.4	0 6		203.2	ნი	10.	99.	197.1	D	02.	196.9	.01	01.	173.9	4	0 4	210.1	23	269.6	12.	91.	192.2 190.3	
arges	er 1,00	2	12.80+	0	13.08+	3.4	4.34	13.64+))	13.39+	2.68) *	12.14	1.80	20	0.84	11.01-	0.17	. 57	- 88 60 60 60 60 60 60 60 60 60 60 60 60 60	4	9.0	10.70		ů c	-08.6	40	7.32-	m.	. 55	8.25-	
Discha	6	L D C III D N	33,194	4,11	4,234	98	00.	3,639		741	30	œ a	_	1,88	8	8,82	39,962	8	, 21	6,592	, 62	വ	223 808	0	20 4	884		88		28	1,745	
enrollment	Percent	0	99°.74		88.00 00.00	6.6	9.9	86°66	•	0.	98.00	71 21	8.6	99.73	න න	3.0	91.96	9. /	4.3	92.10	6.7	6.6	00.00 00.00		٠. ص	90.74	0		9.6	4.7	95.23 93.22	
Non-HMD e		Kumper	2,584,974	1,014,677	321,739 100,966	220,773	415,968	268,137	100 .	378,716	180,038	198,678	1,468,551	1,021,156	447,395	,539,95	3,642,859	897,092	1,200,638	720,893	479,745	97,248	21,173 76.075		109,822	91,351	42 408	12,265	30,143	266,663	201,737 64,926	
	-	Area of residence	West South Central Metropolitan	Runal	Arkansas Metropolitan	Rurai	Louisiana	Metropolitan	200	Oktahoma	Metropolitan	Rela	Texas	Metropolitan	Rurai	West	Metropolitan	Rurai	Mountain	Metropolitan	Rurai	Montana	Metropolitan Rural		Idaho	Rural	\$ 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Metropolitan	Rural	Colorado	Metropolitan Rural	See notes at end of table.

Table 2. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enrofiment	Disch	arges	30-day post-admission	ission deaths	1 4 4 4
		B B	,	er 1,00 non-HMD	Per 1,000	er 1,00	deaths
Area of residence	Number	_	N C E D C L	- -	Scharge	0	00 L D D
New Mexico Metropolitan Rural	125,371 51,612 73,759	92.49 85.86 97.76	1,139 413 726	9.22- 8.20- 9.92-	232.6+ 223.9 237.4	2.181 1.863- 2.395	2.95- 3.14- 2.80-
Arizona Metropolitan Rural	348,748 257,931 90,817	91.33 89.11 98.31	3,375 2,518 857	10.11- 10.08- 10.20-	181.5 179.7 187.2	1.822- 1.809- 1.863-	2.94- 2.91- 3.05-
Utah Metropolitan Rurai	128,579 93,319 35,260	00 00 00 00 00 00 00 00 00 00 00	1, 848 340	9.41- 9.28- 9.76-	230.9+ 229.2 235.2	2.148 2.111 2.244	4.00 4.07 3.81
Nevada Metropolitan Rural	81,799 64,385 17,414	86.15 84.73 91.83	762 608 154	10.26- 10.43 9.64	222.8 219.9 233.1	2.301 2.275 2.397	8 4 . 8 8 0 0 8
Pacific Metropolitan Rural	3,339,313 2,921,966 417,347	92.62 91.93 97.77	37,609 33,370 4,239	11.29- 11.41- 10.42-	198.5 197.1 208.7	2.247- 2.254- 2.199	3.92 9.92 9.22
Washington Metropolitan Rufai	461,706 346,977 114,729	92.4 90.86 42.4	4,855 1,201	10.53- 10.51- 10.58-	202.2 202.1 202.4	2.119- 2.110- 2.147	3.73
Oregon Metropolitan Rural	303,778 181,677 122,101	88 89 89 89 89 89 89 89 89 89 89 89 89 8	2,983 1,864 1,119	9.78- 10.01- 9.43-	209 209.9 210.8	2.028- 2.063- 1.974-	4.12 4.32+ 3.71
California Metropolitan Rural	2,477,248 2,330,007 147,241	93.71 93.36 99.57	28,707 27,147 1,560	11.60- 11.64- 10.95	197.4 196.3 216.1	2.305 2.296 2.453	88.40.40.00.40.00.00.00.00.00.00.00.00.00.
Alaska Metropolitan Rural	16,348 5,625 10,723	99.78 99.75 99.80	145 57 88	9.80 11.78 8.83	150.3 99.7 178.7	1.451- 1.112- 1.604	4.2.8 4.3.8 4.0.0
Hawaii Metropolitan Rural	80,233 57,680 22,553	83.64 83.31 84.47	918 647 271	11.89 11.79 12.11	183.0 178.1 194.4	2.181 2.120 2.326	3.03- 3.63-

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMDs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

deaths per 1,000 persons 3.27-3.29-3.77 3.05-3.67 3.41-3.43-3.66 4.10 3.05 3.64 3.49 3.89 3.69 30-day post-admission deaths Per 1,000 non-HMD enrollees 1.900-2.196 1.668 1.785-2.082-1.959-2.569-2.358 1.811-1.968-2.015 1.982-1.730-2.304 2.217-2.037-2.171 1.938 2.226 2.082 1.949 2.364 Per 1,000 discharges 187.1 175.1-213.8 202.0 231.8 181.8 183.1 189.6 156.1 196.3 182.0 203.9 80.8 200.0 199.4 202.3 188.2 213.6 189.2-197.7 194.4 174.1 Per 1,000 non-HMD enrollees 10.33-11.83 11.03 9.41-9.82-10.04-9.68-9.47-10.73-10.38 10.37 111.13-112.04 111.66 111.25 9.89-11.39-10.72-11.43 9.88 11.96 Discharges 193 152 505 468 306 704 8,115 4,990 786 241 731 1,522 1,522 973 1,517 976 283 319,368 71,789 17,082 Number 1,237 As percent enrollees 99.88 99.87 99.93 93.75 95.67 98.67 91.00 79.57 97.56 96.63 99.16 95.31 96.20 98.98 97.91 99.52 99.82 97.59 96.70 98.04 of all enroliment Non-HMD 396,761 96,911 157,139 102,964 27,613 153,209 16,035 13,464 52,846 114,752 44,397 29,738 62,781 709,478 429,794 65,540 20,281 72,225 71,185 132,332 6,276,897 1,569,313 Number 26,698,924 띭 Bangor, ME Lewiston-Auburn, Portland, ME Area of residence Boston, MA New Bedford, MA Pittsfield, MA Springfield, MA Worcester, MA Bridgeport, CT Hartford, CT New Haven, CT New Hampshire Massachusetts Rhode Island Manchester, NH Portsmouth, NH Burlington, VT Providence, RI New London, CT Connecticut United States New England Northeast Vermont Maine

Table 3. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

See notes at end of table.

Table 3. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

			(***************************************	400	
	Non-HMD e	enrollment	Disch	arges	30-day post-admi	SSION DESC	ota
		per fa		er 1,00	Per	er 1,00 non-HMO	deaths per 1,000
Area of residence	Number	-	Number	enrollees	scharge	0	6 1 80 1
Middle Atlantic	4,707,584	98.68	54,707	11.62-	196.1	2.278-	3.43-
Y	143.24	8	. 56	0.79	95.	. 11	. 22
, ,	115,12	8.7	1,23	9.0	75.	.895	. 2
nahamton	35,57	9.9	42	1.7	97.	. 35	. 24
: - <u>></u>	134,451	98.66	1,450	11.01	213.8	2.390	4.72+
Ē	13,69	9.9	11	8.2	31.	96.	ဂ (
ens Falls,	5,22	9.6	16	æ	83.	00.	. 9.
Nassau-Suffolk, NY	7,14	9.8	3,28	1.23	02.	. 30	
New York, NY	97,47	9.5	, 18	0.7	83	. 02	7.
agara Falls,	0,84	9.6	က	1:1	6	. 29	٠.
ange County,	0,48	9.8	3	1.08	38.	٠ د د	* 4
ughkeepsie, N	7,86	4.	26	. 18	20 i	2	٥, ٥
chest	2,54	8.8	3	٠,		90	, a
Syracuse, NY	5,21	ა. დ	g)	9.24	24.	50.	? •
ica-R	6,73	9.9	0	œ	33.	. 54	4
	16 16	0	75	0	0.3	43	.5
: + :	01,0			4	20.	. 70	.01
2	100		0 0	200	7	26	3
, z	1,24	. c	750	000	16.	2.664	3.96
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200	20.18	- 4	12			3.4	. 46
		, 4	0	2.4	0	. 46	. 57
C * C + C + C + C + C + C + C + C + C +	10,11		AA	00	5	. 28	ω.
Vine bad N.	16,382	96.17	178	11.17	247.4	. 80	ω.
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	8,18	8.7	39	2.5	92.	.41	9
Allentown, PA-NJ	4,66	9.0	,09	6.	=======================================	. 52	500
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Beaver County, PA	7,56	6.6	9	4.		. 0 .	
	5,24	9.6	N	N •	? ?	3.6	•
_'	2,92	9.9	3	- c	, 4	9 0	
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Pittsburgh, PA	4 4	ص ص	, C	12.92+	193.0	2.238	30.5
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PAG	48,541	96.66	509	· KO	4.	. 12	. 7
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Table 3. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 Total deaths Per 1,000 Persons 3.96 3.95 33.97 33.99 33.99 33.99 33.99 33.99 33.99 33.99 30-day post-admission deaths Per 1,000 non-HMD enrollees 2.343 2.396 2.219 2.2145 2.209 2.078 2.371 2.368 Per 1,000 discharges 193.3 191.3 1179.3 173.2-197.3 168.1-194.3 196.0 Per 1,000 non-HMD enrollees 12.25 112.71 113.06 113.13+ 111.45 12.22+ 12.08 Discharges 946 579 1.937 3.107 1.382 Number 84,528 57,874 15,301 As percent of all enrollees 99.46 999.90 999.97 999.73 97.76 96.39 enroliment Non-HMO 1,263,869 75,615 51,895 159,407 242,585 121,377 103,547 6,901,975 Number 4,745,430 Canton, OH Cincinnati, OH-KY-IN Cleveland, OH Columbus, OH East North Central Area of residence North Central Akron, OH

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Dayton, OH

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Lorain-Elyria, UM	27,340	D .	ה ה ה	3 •	1 6		0
Mansfield, DH	15,230	6.6	141	4	2	. 4	7 1
Otto benefit of the WV	21.934	8.5	300	m.	73	. 58	. 7
	70,660	6.6	917	6.	207.1	2.697	4.89+
ı≆	69,319	99.95	775	11.75	210.6	40	0.
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Indiana	623,062	7	7,816	2.5	9	9	. '
Anderson IN	17,198	60	243	4.	N.		۳.
Bloomington TE	7.913	6	72	9.0	♥.		
Hitchart Goshen in	15.647	S.	180	1.4	ന	σ.	3
	46.4	S	441	2.6	4	9.	Ξ.
	37,565	1	479	2.6	ര	۳.	Ψ.
TE PROBLEM TE	61,160	_	792	3.7	9	9.	w.
T Constant to	118.407	· cc	1.530	2.8	6	'n,	
	10.842	46.66		11.42	253.9	2.834	4.90
Lafaxette IN	11,228	6	130	1.3	œ	9.	.,
. 2	13.759	6	170	2.5	œ	Θ.	5
100	23 170		347	4.0	ന	6.	-
	100		226	0	ĸ	0	
Terre Haute, IN	18,585	, n	067		>		
Sion: III	1.265.011	5.9	15,855	2.4	œ	2.369	3.86
Aurora-Flain, IL	30.946	8.6	ന	6.	90	7	
Bloomination II	12.672	6.6	152	1.5	32	۲.	
Chambaign, IL	13,391	6.6	125	9.2	74	9.	
Chicago, It	608,135	2.9	7,867	3.0	83	e.	
Derat: II	15.992	6.6	CA	2.9	89	٠	
100000	28.047	7.1	351	2.7	88	ь.	
Kankakee II	12,020	40.00	188	15.71	181.0	٠.	
	360	9	457	2.9	8	3	
Deor: 3 T	40.04 50.04 50.04 50.04 50.04	0	484	1.0	92	۳.	
Dockford T1	28,351		292	0.2	25	ĸ.	
7 -0 - 10 - 10 - 10	24 790		274	0.8	92	Ξ.	
	71.00	,	4		i		
so sottee at and of table							

Table 3. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	E G		er 1.00	Per	er 1,00	deaths
Mumber	- 0	Number	- 0	scharge	0	- COS
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16,831	98.66 66	219	12.97	206.3	2.731	α
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9 t	0.2	S	0.84	33	34	7.
5	8.0	0	0.9	83.	. 03	es.
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2,156,545	93.50	26,654	11.79	199.5	2.377	3.93
. 25	7.3	N	0.9	215.5+	2.378	28
. 97	6.7	36	1.79	σ,	. 76	σ.
.76	4.4	1,631	9.	0	. 23	. 25
39	9.6	6	9.2	4	.48	6.
12,248	70.92	134	10.13		. 80	
4.05	9	9	1.0	94.	. 16	6.
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15 051) 40 n o	177	7.00	20.00	7.00.0	4.08
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Table 3. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 30-day post-admission deaths Discharges

	Non-HMO enrol	nrollment	Disch	anges	30-day post-adm	TISSION DESCUS	
							Tota
		ಀ		r 1,		1,	eaths
		of all		H-non	Per 1,	non-HMO	per 1,000
Area of residence	Number	- 1	Number	enrollees	scha	101	perso
	20 22	-	7		86.	.47	ω,
LIOSSIE	070,000		5 -		. 7.	26	7
Columbia, mu	9,000	n c	0000	11.96	288.7+	0 6 4	4.87
Johlin, MD	19,2/5	ית הי	3 6	000			. "
Kansas City, MO-KS	154,919	2.0	א מ				2 4
St. Joseph, MO	13,630	g.	6	0.01	n n	9	
St. Louis, MO-IL	283,167	7.4	2	2.9		9.	٤.
Springfield, MO	27,676	99.94	32	1.6	05.	. 47	4
		0	1.4	7	50.6	-	5
North Dakota	80,400	7 .	1 7	- 0	,	4	•
Bismarck, ND	8,160	ი. ი.	+71	00.0	10.011	000	- a
Fargo, ND-MN	14,138	2	ו ס	0 - 7		71.	
Grand Forks, ND	2,687	6.6	22	Ξ.	. 10	4.	
	3 60 30	u	a	4	75	36	80
South Dakota	7 4 5	n 0	•	7 86-	6.000	1.686	2.96
Rapid City, SU	201,7) () W		. 0	S CK	0
Sioux Falls, SD	13,2/5	י י		1 - 1	D		
4 4 4 2	200 010	ď	44	00	19.	4	7.
	400.00		18	8.2	75.	. 43	
Chicola, and	57,509) or) or) or) or) or	889	11.66	181.0	2.074	0
27-32 · 0 = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			•				
\$0 00 00 00 00 00 00 00 00 00 00 00 00 0	307,796	5.8	3,691	11.41	216.3+	2.497	3.77
Lawrence, KS	4,965	7.7	29	1.2	18.	. 37	9
Topers XS	18,983	7.2	0	0.1	35.	. 34	3
Wichita, KS	45,844	88.57	553	1.7	98.	35	. 7
				•	8	6 9 3	c
South	8,980,101	40.70	114,225	12.83+	7.007	0	
South Atlantic	4,668,855	96.31	56,231	12.27+	200.5	2.450+	4.11+
	70 251	0	9	1.2	89.	. 13	. 64
Wileston DE-NJ-MD	58,114	99.65	649	11.54	183.5	2.114	S
		•	4	,	-	900	a
Maryland	436,606	4.6	51	7.	10.	5 7	9 4
Baltimore, MD	244,878	ص ص	9.	* · ·	100	011.	. 4
Cumberland, MD-WV	17,051	00.00 00.00 00.00	255	77.61	101.1- 173 K	1.5.6.1	3.0
Hagerstown, MD	14,522	7) 7)	9	ŗ	2		
District of Col.	66,196		692	10.04-	160.2-	1.510-	3.35-
Washington, DC-MD-VA	261,121	9.0	2	96.0	73.1	. 861	9
See notes at end of table.							
2000							

Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 Table 3.

0061 1000	4	deaths per 1,000	5.60	0.6	ထထ	9.	4. 4. 0. 11. 0. 01.	. r.	7.	`.			787		. 94	.82	٠ ٠	- ∞	•	5.40+	, co	.33	9.	4.	. 23	œ '	. 58	7.5	, r	7.0	8 2	
במי חוו הבת אהם	mission deaths	Per 1,000 non-HMD enrollees	2.527	. 41	. 73	. 8	3.060+	.61	.08	. 05	. 55	7 0	28	7.9	.33	.68	49 4	2.611		2.898+ 1.896	44	. 93	94	. 18	.11	.630	906.	300	. 000	500	2.358	
Statistical al	30-day post-adm	Per 1,000 discharges	198.1	21. 00.	03.	93.	228.1+	96.3	78.	71.	07.	9 1 20 1	- 0	4 6 9 4	02.	58.	8	192.1		215.3+	000	74.	40	01.	07.	55.	25.	01.	01.	20 u	148.4-	
d metropolitan	arges	Per 1,000 non-HMO enrollees	12.85+	1.0	3.6	1.2	13.42+	. 4. 0. 4.	4.3	2.3	.2	٦.	y . z	1 . 7	• •	0.6	2.0	10.24		13.71+		4.	0.8	1.16	5.10	7.9	3.5	4.	4.	ຄຸດ	15.92	
, State, an	Disch	Number	7,106	90	co +	35	3,253		00	-	9	2	2 2	> 4	0	23	2	1 9 2 3)	4,289	~ a	n cc	, –	0	40	16	18	0	4	o n (31 (C) G) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	מ
region and division	nroll	As percent of all enrollees	99.91 99.92	0.0 0.0	0.0))))	0.0	ρ (f 3) σ 3) σ 3) σ	. O	2.5	g.	හ. ග	9.0	. o	h (5)	6.6	8.6	<i>©</i> 50 00 00 00 00 00 00 00 00 00 00 00 00		44.00	- c	n 0	. 0	8	9.7	9.9	9.9	9.2	6.0	6. 6.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	n • h
by census	Non-HMD e	Number	566,135	5,53	2,60	0,62	4,25	34,215	988	2,01	9,13	4,46	4,50	υ, υ, α	ა ი ა დ	3,39	5,13	10,484	600	329,020	9,00	7,74 5,25		5,89	.71	9,29	3,51	9,53	2,93	2,84	25,929	o , o
ate for the aged population.		Area of residence	Virginia Charlottesville, VA	ville, VA	JK, VA	Richmond, VA Roanoke, VA	West Virginia		WV-OH	heeling, W		sheville,		harlotte, N	ayerter a.	ickory. NC	acksonville, NC	70-		South Car	nderson, sc	narieston.		enville,	6 - C	Ibany, G	Athens, GA	tlanta, GA	ugusta, GA-	olumbus,	, GA	, e

Table 3. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

Area of residence		U		L			2 + 5
of residenc		3-1-		non-HMD	er 1.00	non-HMO	7 1,0
	Number	0	Number		discharges	- 0	perso
Florida	705,534	0.9	18,505	6.		2.151-	3.41-
enton. FL	42,906	9.6	415	9.48	ای	.30	60
aytona Beach, FL	62,616	2.9	9	7	60 i	. 207	2
Lauderdale, FL	181,839	1.0	1,810	9.0	2	81.8	000
Myers, FL	61,428	9.6	573	9.89	N I	48.	. v
Pierce, FL	41,198	9.2	398	0.3		80.4	000
Waiton Beach, FL	10,169	9.8	121	3.0		9.0	22.
F	16,758	80°.00°	223	13.58	ם מ	3. 30 S	9
딮	80,895	8.2	E 0 0	0 ·	D 4	0 0	. <
Lakeland, FL	55,495	9.5	622	٠. ر د د		77.	٥, د
	46,501	9.7	ဂ (2.0		77.	
7.	168,502	ر د د	2,059		> r	2 6	٠ ٥
	23,433	9.7	219	0.0	٠,	7.0	0 7
	31,367	9.5	277	9 .		80.	4.1
	90,604	8.5	985	-	0	4.5	٠, ١
1	11,817	9.7	131	1.8		. 52	0
!	29,972	9.8	388	3.6	ъ.	. 48	Φ,
	77.895	9.8	757	7	4	. 75	₹.
1	17.414	7.8	233	.5	7	. 52	٠.
1	323,951	7.0	S	0.7	Oi	. 26	٠.
Paim Beach, FL	139,729	5.2	m.	. 5	о О		. 5
	010 301	08 00	24.800	14.37+	200.5	2.870+	4.63+
· +	170,071		-)	• •		
Keett.	422.657	9.7	9	3.3	0	2.724+	4.55+
ination KY	31,008	8.8	35	1.3	85.	.08	ო
STIPS KALIN	107,485	თ	1,264	11.81	230.8+	. 70	. 7
KY	10,319	96.66	7	1.1	58.	. 79	6
	EEO 227	0	S	α.	63	. 87	9
F	2 6	. 0	5 6	3.19	27.	766.	.67
2 C C C C C C C C C C C C C C C C C C C	12.541	0	9	7	73.	.88	æ
	10.064	6	ന	2.9	63.	. 18	6.
City	55,068	6.6	$\overline{}$	3.3	01.	. 75	e.
*	070,07	9.9	5	2.2	08.	. 59	7
N.	88,836	98.06	1,343	15.06+	186.7	2.752	5.01+
	+ n n 1 7 n	, ,	9 6				
See notes at end of table.							

Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death population, by census region and division, State, and metropolitan statistical area: United States, 1986 Stroke: Table 3.

Total deaths Per 1,000		4.74+ 5.09	.3	9.	ε.	4.	٠.	0.1	٠.	δ.	. 49	9 .	69.	3.76	4.16+	•	+ on of r or or or	٠, د	. 4	. a		4.14+		0	9	0	٠.	6.	0	ნ.	-	4.80	٩.	٥.	٠.
mission deaths Per 1,000 non-HMO	101	2.761+ 2.708	. 52	. 95	. 99	99.	. 13	. 54	. 75	. 40	. 22	.17	'n	3.124	2.553+	,,,	1 505	0 4		100	0	.579	4		. 7	0	3.240	4.	S.	ო.	99	2.980	.69	.37	. 40
30-day post-adm Per 1,000	B	192.8 190.1	81.	55.	51.	83.	21.	88.	20.	72.	20.	97.	15.	241.5	199.6		210.0			٠,	'n	83.	36.	67.	26.	86.	208.4	56.	91.	68.	97	216.3	68.	83.	8
Per 1,000	9 6 6	14.39+ 14.56	3.9	2.5	3.4	5.1	4.0	3.7	2.9	3.9	4.9	1.7	1.7	13.33	2.8	•	13.08+	, c	7 6		7.7	4.3	1.2	а. Э	2.4	1.0	15.90+	6.3	3.84	3.6	Cr.	12.72	5.5	2.9	2.0
Disch	a mage	6,612 183	-	15	-	0	3	1	8	9	4	200	0	106	6		4,234	N	0 (No	77	0	15	-	2	9	251	4	3		α	109	C	9	85
ment percen	0	70.00 70.00	6.6	9.9	9.9	9.9	9.9	9.9	9.9	9.9	0		. 0	000	9.7	,	00°00°			ອາ ດ ອາ ດ))	9.9	9.9	9.9	0.0	9.9	6.	9.9	9.9	9	٥	1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0	7.4	. 1
Que la	Nemer	463,131	108.546	12,690	16,687	14,295	17,137	50,513	29,832	13,604	290 157	10,10	25,05	000	2,584,974		321,739	11,803	21,413	50,966	11,012	415,968	13,819	39,583	13,501	14,620	16,436	14,648	118,708	36,822	279 716	8,215	8.221	88.646	1.03
	Area of residence	Alabama Annieton Al	. E		Florence, AL	Gadsden, AL	Huntsville. AL			Tuscatoosa, AL		ON 41069-100-100-10		Carrior and	West South Central			e.	<		<	Louisiana	Alexandria. LA	Baton Rouge, LA	Houma-Thibodaux, LA		Lake Charles, LA	Monroe. LA	New Orleans. LA	LA	() () () () () () () () () ()		Lawton DK	Oklahoma City, OK	Tulsa, OK

Table 3. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMO e	enroliment	Discha	arges	30-day post-adm	mission deaths	+
		As percent of all		Per 1,000	er 1,00	P4 1	deaths per 1,000
Area of residence	Number	- 0	Number	- 0	discharges	10-	erson
- C	468	00	~	2.1	03.	. 47	6.
-	13.1	S.	17	3.2	98.	. 59	ω.
Amari-10. TX	0.6	6.	-	1.2	24.	9	۳.
Austin TX	7,5	o.	4	1.3	89.	i	<u>ن</u>
Beaumont, TX	2,3	9.9	o s 1	4.1	95.	4 .	٠, ١
Brazoria, TX	4.	. 7	175	9.9	904	20 c	٠,٢
Brownsville, TX	0,1	න :	5	ກ ເ ກ ເ	, 20, 10,		٠ ٥
	9	ים פונס	nα	າ ແ	26.	700	0 m
Corpus Caristi, IX	ביב	n	0 0		10.	4.	0
Datids, IA		. 0	, w	. e.	85.	. 79	*
Fort Worth, TX	10	6	1,065	0	80.	.02	. 2
Galveston, TX	6,0	9.9	24	3.0	79.	. 24	٦,
	7,9	8	4	2.8	79.	. 27	. 12
Killeen-Temple, TX	7,1	ი. ი	0 4	1.83	000	20	9 4
Laredo, TX	æ. a.r	ກ ເ	0 4		טעס	0 4	ο α
Longview, TX	ຸດ	ה ס	ט מ	9 00	000	4	. 76
Months TX	0 , b	0) KO	. 5	65.	. 60	. 18
Mid-wod TX	7 . 3	9	9	8	28.	.04	٠.
Odessa. TX	2	6.	7	æ	19.	. 93	. 16
San Angelo, TX	1,2	6.	11	9.9	54.	. 65	9/.
×	တ္	7	1,223	1.4	95.	42.	٥
=	4,5	<u>ن</u>		4.3	75.	9 0	٠ ا
Texarkana, TX-AR	ຜູ	<u>ق</u>	0 (₩.c	200	0 0	٠, ح
Tyler, TX	80	ه (70 C	200	. 70	סע	90
Victoria, TX	o. o.	. c	0 0	7 +	t C	9 6	
Waco, ix Wichita Falls, TX	14.462	n - n on n on	156	10.55	208.0	2.162	. m
West	4,539,951	93.08	48,826	10.84-	199.4	2.168-	3.77-
Mountain	1,200,638	94.36	11,217	9.57-	202.6	1.945-	3.35-
Montana	,24	6.	ന	0.6	01.	.17	80
SIG	12,097 9,076	99.88 99.91	121	10.20	181.8 165.1	1.790	2.24-
							•
Idaho Boise City, ID	109,822	99.77	1,033	9.54-	206.8 186.1	1.996-	3.40 9.40
0 0 2 0 2	40	6	400	. 49	23.	. 18	. 7
Casper, WY	5,379	99.90	8 K	6.49-	176.5 331.3	1.155-2.516	ເຄ ເຄ ເຄ ເຄ ເຄ ເຄ ເຄ ເຄ ເຄ ເຄ ເຄ ເຄ ເຄ
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Table 3. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

			•				
	Non-HMD 6	enroliment	Disch	arges	30-day post-adm	mission deaths	4
		As percent of all		er 1,00	Per	er 1,00 non-HMD	
Area of residence	Number	-	Nember	- -	Scharge	5	2021
	99.9	4.7	∞ .	.55	91.	1.654-	3.24-
Ider-L	15,143	97.96	118	7.58-	226.9	. 025	ი დ
, , ,	9,62	4.1	1	. 97	86.	.68	٠.
Fort Collins, Co	15,08	9.7	13	. 55	63.	. 219	Ξ,
	1,61	6.6	7	 	93.	2.0	2 1
Pueblo, CO	5,37	4		7.			
ew Mex	5.37	2.4		. 22	32.	. 18	6.
buquerque,	, 78	1.0	9	7.9	50.	9 5	, c
Cruces, N	9,375	40.00 40.00	e 4	10.03	227.8	1.533	2.48-
anta re,	φ. 0	9					
-	48.74	1.3	,37	.11	81.	.822	94
hoenix,	187,381	86.74	1,841	10.17-	174.4-	1.767-	œ •
cson, AZ	0,55	0.9	_	. 85	9	. 91	C
4 4 2	5.7	0	α	4	30.	14	0
rovo-Orem.	16.076	80.00	172	11.00	0	1.666	3.92
Sait Lake City, UT	7,24	0.0	7	8.9	52.	. 20	***
•	,	•	- 4	30	22	3	4
Nevada Veda	81,799	80°.08	449	11.09	208.4	2.286	3.11-
	9,13	9.1	5	6.8	51.	. 25	٥.
Pacific	3,339,313	92.62	37,609	11.29-	198.5	2.247-	3.91
							- 1
ngton	1,70	4.2	4,856	10.53-	202.2	2.119-	. 4 . 4
ham,	3,62	و د م	4 4) C	9 a	. ע ט	•
* E O :	5 4 4 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5	0.0	U 4	, a		60	9
. 7	5.0		- 0	8.0	90.	00.	د .
WA	9,82	6.5	-	. 64	94.	.04	S.
3	1,23	4.5	0	9.6	10.	.02	۲,
WA	0,24	7.2		4.0	90	000	0.0
Vancouver, WA	17,048	80.32	204	- 4	- 6	200	3 6
₹ .	2,13		+			•	
u o f	3,77	8.9	2,983	9.78-	209.9	2.028-	4.12
5	200	9 6	> @	9.16	92.	.75	· m
Portiand, OR	99,155	72.79	1,007	9.7	03	94	m c
	3,24	0.3	9	9.	60	. 25	J
e notes at end of table							

		en roll ment	Discharges	rges	30-day post-admission deaths	ission deaths	
							Total
		As percent		Per 1,000		Per 1,000	deaths
		of all		BON-HMD	Per 1,000	non-HMO	per 1,000
Area of residence	Number	5	Number	enrollees	discharges	enrollees	persons
6	477	67		11.60-	197.4	2.305	3.95
, (167	0	2.030	11.99	200.7	2.473	3.67
1 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44.969	9		12.69	183.3	2.340	3.43
0 10 10 10 10 10 10 10 10 10 10 10 10 10	27,102	0	293	11.05	163.4	1.850	3.62
0000	58.425	0	615	10.48	204.1	2.016	3.12-
	677, 939	91.40	8.551	12.47	188.0	2.341	3.98
	13.462	6		12.01	199.2	2.404	3.63
Modern CA	33,619	œ	353	10.68	254.9	2.636	4.74
Carland CA	188,258	6	2,438	12.98+	190.9	2.495	4.19
	49.488	m	•	10.41	214.2	2.288	3.62
-	17.796	6	148	8.80-	246.6	2.065	3.54
0 - co - c	203.246	0		11.99	215.9	2.603	4.31+
Carrege at CA	120.273	1	1,250	10.69-	201.6	2.178	3.93
Salinas CA	29,131	9		8.99-	276.0+	2.512	4.30
San Diego, CA	205,402	~		9.77-	186.6	1.843-	3.62
Contraction CA	163,753	O		11.91	194.8	2.323	4.22
San Jose CA	105,258	O	1,037	9.93-	194.5	1.915-	3.44-
Santa Barbara, CA	38.021	G	365	9.37-	202.4	1.974	3.92
	24.640	6	280	10.89	179.6	1.972	3.98
Santa Rosa, CA	44.775	0	573	12.69	177.3	2.373	4.46
Stockton	40,855	-	492	12.01	217.3	2.585	4.07
CA.	35,778	œ	399	11.24	197.2	2.256	4.46
SALIA. C	26.811	G	327	11.42	157.5	1.766	3.14
uba City.	11,835	Ø.	124	10.86	321.5+	3.625	5.51
	24	7	2.45	•	150.3	1.451-	4.42
2 - G C K G	6) i	7 10	٠.	0	1 110	2 2
Anchorage, AK	, 62	9.7	۸,			•	
:- 	23		918	11.89	183.0	2.181	
	57,680	3.3	647	1.7			2.81-

Table 3. Stroke: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMDs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).



In 1986, the principal diagnosis for 413,840 discharges was pneumonia or influenza (P&I), giving an overall rate of 15.50 discharges per 1,000 enrollees. The 30-day post-admission mortality rate was 163.5 deaths per 1,000 discharges, or slightly more than 16 percent. The 30-day post-admission mortality rate per 1,000 enrollees was 2.53, quite close to the total P&I death rate per 1,000 aged persons.

Age and sex patterns

For all age groups combined, men were more likely than women to be discharged with a principal diagnosis of P&L. As shown in Table 1, the discharge rate for men was nearly 40 percent higher than that for women (18.62 versus 13.42). The 30-day post-admission mortality rate for men was nearly 28 percent greater than that for women (184.4 versus 144.2).

For all persons combined as well as for men and women separately, the discharge rate and the population mortality rate increased markedly with age. The discharge rate for enrollees 85 years or over was four to five times greater than the rate for enrollees 65–74 years (Table 1). The 30-day post-admission death rate per 1,000 discharges for persons 85 years or over was two to three times greater than the rate for persons 65–74 years. Because the discharge rate and 30-day post-admission deaths per

NOTE: Pneumonia and influenza is ICD-9-CM codes

1,000 discharges increased so markedly with age, the overall impact of the disease with increasing age as measured by the 30-day post-admission death rate per 1,000 enrollees is dramatic: The rate is 10 to 12 times as great for persons 85 years and over as for persons 65-74 years.

Patterns by race

1,000 enrollees across age-sex groups had the was black men in the age group 65-74 years, for white than black persons. The exception higher rate than black women this age. The reverse pattern; that is, the rate was higher except men 65-74 years of age. The 30-day discharges across age-sex groups, however, whose rate was higher than that for white white women 85 years or over, who had a 30-day post-admission mortality rates per higher than that for black persons (15.79 Overall, white persons had a discharge post-admission mortality rates per 1,000 were higher for black persons except for persons held true for all age-sex groups rate for P&I that was about 21 percent versus 13.02). A higher rate for white

Variations by geographic area

Tables 2 and 3 contain data on utilization and mortality by geographic area. The tables are broken out by U.S. census region, division, and State. Data on metropolitan and rural areas within each State are shown in Table 2, whereas data at the metropolitan

statistical area (MSA) level are shown in Table 3. Figures 1-3 were derived from the data in these tables.

Discharge rates

in Kentucky. The District of Columbia's low rates occurred in several Southern States and 1,000 in Oregon to 25.67 per 1,000 enrollees Figure 1, in 1986, the highest P&I discharge and New Mexico. The lowest discharge rates rates were found in the Middle Atlantic and in North Dakota, South Dakota, Wyoming, were scattered across the country, with rates in Oregon, Delaware, Hawaii, Florida, and from 8.22 discharges per 1,000 enrollees in discharges per 1,000 enrollees. The lowest In 1986, the rates of discharges ranged the District of Columbia all less than 11 Pacific Divisions. The highest rates were the District of Columbia and 10.63 per rate may result in part from incomplete reporting of discharges. As shown in found in the East South Central and West South Central Divisions.

The distribution of MSAs and rural areas by discharge rates across and within U.S. census divisions is shown in the boxplots in Figure 2. In line with the map in Figure 1, the census divisions with the highest median discharge rates were the East South Central and West South Central; the divisions with the lowest discharge rates were the Middle Atlantic, South Atlantic, and Pacific.

Population death rates

The States with the highest number of deaths per 1,000 persons for P&I were scattered across the country (Figure 3). Vermont had the highest rate of deaths per 1,000 persons (2.91), followed by Massachusetts (2.76). The States with the lowest rates were also scattered across the country. Florida had the lowest rate (1.23 deaths per 1,000 persons), followed by Idaho (1.70).

Correlations between rates

between the discharge rates in the MSAs and esult likely indicates that, as the number of ,000 enrollees for P&I. On the other hand, particular year reflect the disease burden in discharges (admissions) increases, a higher rural areas and the various mortality rates an area in that year, then it is appropriate persons and the number of discharges per Correlation coefficients were computed studied. If the death rates from P&I in a inversely correlated with 30-day mortality proportion of less severely ill patients are that there was a positive correlation (r =per 1,000 discharges (r = -0.23). This discharge rates per 1,000 enrollees were 0.24) between the death rate per 1,000 being admitted to the hospital.

Urban-rural patterns

Of the 48 States with both metropolitan and rural counties, all but three (Alaska, Nevada, and Massachusetts) had higher discharge rates for P&I in the rural than the metropolitan counties. With the exception of Massachusetts, Kansas, Delaware, West Virginia, Idaho, Oregon, and Nevada, the 30-day post-admission death rates per 1,000 discharges were lower in the rural areas than in the MSAs combined.

Total deaths per 1,000 2.08 0.58 2.42 10.32 2.12 0.56 2.43 10.64 2.42 0.78 3.42 14.02 2.41 0.81 3.42 3.50 1.85 0.40 1.83 9.02 1.91 0.39 1.85 9.33 1.82 0.83 2.44 6.75 2.45 1.25 3.51 9.67 1.39 0.52 1.78 5.41 death Per 1,000 non-HMD enrollees 3.43 5.45 5.34 5.34 2 . 59 0 . 99 0 . 05 0 . 05 3.49 1.44 5.55 88 94 63 59 2.27 1.11 3.01 7.22 3.28 1.77 4.87 0.92 1.60 0.62 1.93 5.66 9 9 9 1 9 1 0000 4007 1007 30-day post-admission Per 1,000 lischarges 163.5 107.0 165.8 243.3 185.0 131.6 194.2 267.4 191.4 153.7 199.8 268.3 144.2 79.6 137.7 228.2 163.6 105.8 165.6 243.8 144.3 78.8 137.1 228.8 174.3 130.1 180.7 242.2 155.4 98.2 158.3 224.3 184.4 132.6 193.7 267.2 b Per 1,000 non-HMO enrollees 10.30 6.35 12.17 25.23 15.79 9.32 20.71 41.24 13.76 8.09 16.27 34.56 15.50 9.23 20.38 40.14 18.62 10.92 28.17 57.40 13.42 7.93 15.94 33.71 18.85 10.91 28.59 59.40 13.02 8.56 16.68 29.82 17.14 11.50 24.39 40.68 Discharges 25,950 10,385 9,734 5,831 13,592 5,974 5,255 2,363 12,358 4,411 4,479 3,468 413,840 149,336 163,513 100,991 198,331 77,120 82,051 39,160 215,509 72,216 81,462 61,831 372,380 132,480 147,821 92,079 177,109 67,834 73,602 35,673 195,271 64,646 74,219 56,406 Number As percent of all enrollees 96.33 96.33 96.96 96.01 95.90 96.02 97.22 96.62 96.23 96.88 98.26 95.94 95.83 97.12 97.07 96.55 97.42 98.69 97.49 97.28 97.67 98.74 98.10 97.74 98.37 97.16 96.66 97.51 98.74 97.86 97.54 98.11 enrollment DWH-HCN 14,183,050 7,990,592 4,560,510 1,631,948 10,650,991 7,056,445 2,912,366 682,180 1,199,155 693,709 368,028 137,418 26,698,924 16,162,594 8,020,447 2,515,883 5,216,472 2,573,989 600,555 16,047,933 9,106,149 5,108,081 1,833,703 23,574,066 14,207,064 7,134,499 2,232,503 ,991,943 ,213,014 583,429 195,500 792,788 519,305 215,401 58,082 Number 500 OVE OVEF OVEF over Over OVEF OVEF over ove Ali persons (1) 65-74 years 75-84 years 85 years or o White 65-74 years 75-84 years 85 years or 0 B + ack 65-74 years 75-84 years 85 years or 0 65-74 years 75-84 years 85 years or Women 65-74 years 75-84 years 85 years or 6 Men 65-74 years 75-84 years 85 years or 6 Women 65-74 years 75-84 years 85 years or 6 65-74 years 75-84 years 85 years or Women 65-74 years 75-84 years 85 years or a n d Table 1.

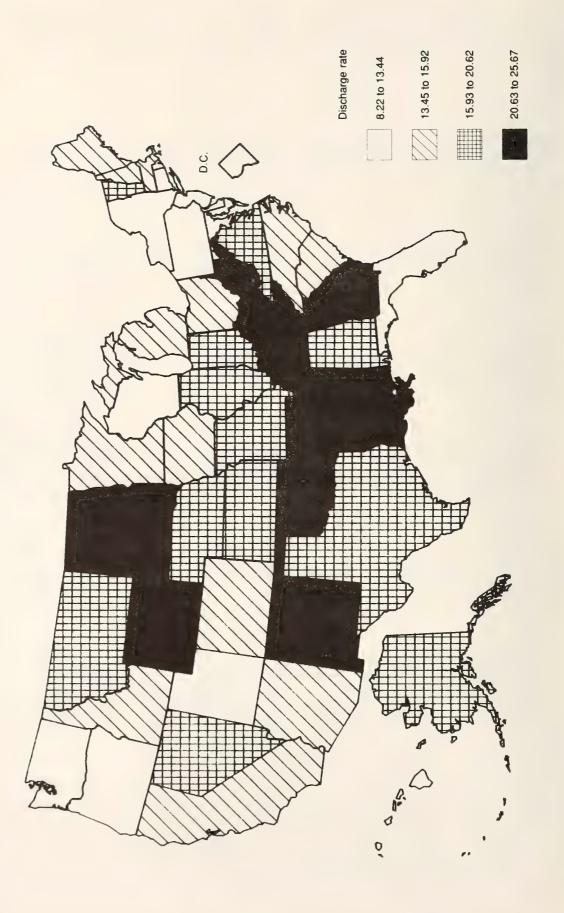
Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare and total death rate for the aged population, by age, sex, and race: United States, 1986

the Medicare Statistical System. of the Census (population). health maintenance of Data from S. Bureau not members **=** and Strategy (deaths) and Were (1)Includes persons of other races in addition to white and black persons.

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and organizations (HMOs) are included in Medicare data.

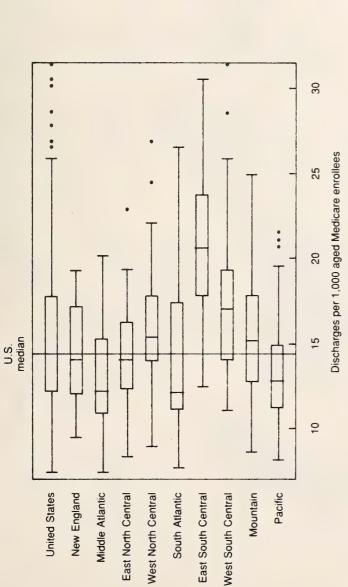
SOURCES: Health Care Financing Administration, Bureau of Data Management and Str

Figure 1. Pneumonia and influenza: Short-stay hospital discharges per 1,000 aged Medicare enrollees, by State: 1986



NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy. Data from the Medicare Statistical System.

Figure 2. Pneumonia and influenza: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by division: United States, 1986



enrollees	Rate	26.49	26.87	27.73	28.57	30.14	30.49	31.37	22.91	24.48	26.87	28.57	31.37	20.68	21.02	21.50
Outliers for discharges per 1,000 enrollees	Rural or metropolitan statistical area	Rural counties, GA	Rural counties, SD	Gadsden, AL	Rural counties, LA	Rural counties, KY	Rural counties, TN	Monroe, LA	Steubenville, OH-WV	Rural counties, ND	Rural counties, SD	Rural counties, LA	Monroe, LA	Visalia, CA	Anchorage, AK	Bakersfield, CA
Outliers for	Area	United States							East North Central	West North Central		West South Central		Pacific		

SOURCE: Health Care Financing Administration. Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

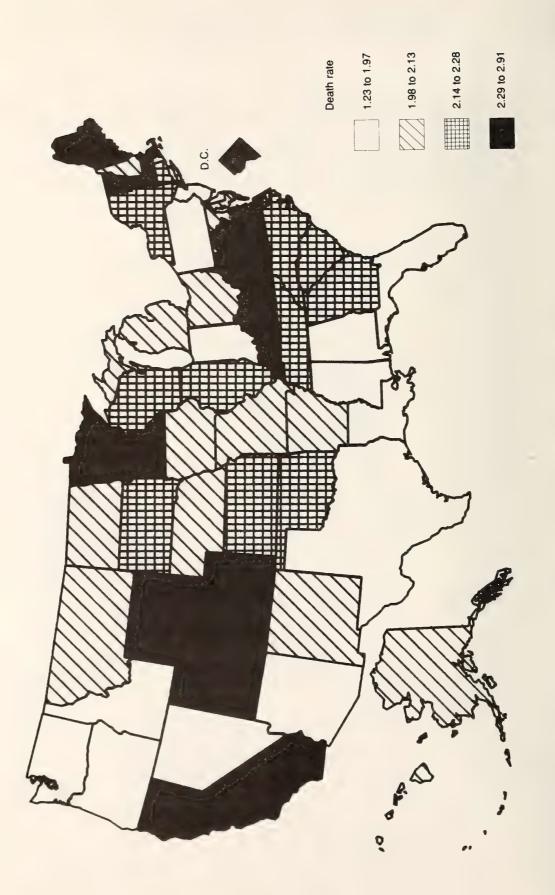


Figure 3. Pneumonia and influenza: Deaths per 1,000 aged population, by State: 1986

Table 2. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMO	enroliment	Disch	arges	30-day post-adm	mission deaths	1040
:		percen f all	<u> </u>	Per 1,000	Per 1,000	Per 1,000	deaths per 1,000
Area of residence	Number	0	Number	ם ב	D = 00 = 00 = 00 = 00 = 00 = 00 = 00 =		
United States	26,698,924	96.70	413,840	15.50	163.5	2.533	2.09
Metropolitan	19,363,284	95.80	263,346	13.67-	173.0+	2.383-	2.07
Rural	7,335,640	99.16	150,494	20.23+	146.5-	2.917+	2.14+
Northeast Metropolitan Rural	6,276,897 5,564,648 712,249	80 80 80 80 80 80	82,934 70,920 12,014	13.20- 12.73- 16.80+	169.1+ 174.0+ 139.3-	2.272- 2.264- 2.330-	2.20+ 2.20+ 2.17
New England	1,569,313	96.20	22,918	14.42-	162.4	2.383-	2.45+2.45+
Metropolitan	1,342,886	99.56	19,286	14:19-	166.8	2.417-	
Rural	226,427	99.53	3,632	15.79	138.7-	2.177-	
Maine Metropolitan Rural	153,209 82,345 70,864	88.000 000 000	2,484 1,174 1,310	15.86 14.04 17.95+	139.4- 147.6 131.8-	2.189- 2.060- 2.337	2.35 2.31 2.40
New Hampshire	114,752	98.98	1,638	14.26	152.1	2.153-	2.08
Metropolitan	74,135	98.55	887	11.96-	163.1	1.940-	2.06
Rural	40,617	99.77	751	18.46+	139.0	2.545	2.12
Vermont	62,781	99.82	1,067	16.67	136.8	2.234	2.91+
Metropolitan	10,422	99.91	147	13.96	219.0	2.942	3.19
Rural	52,359	99.80	920	17.20	124.0-	2.096	2.86+
Massachusetts	709,478	93.75	11,549	15.90	158.9	2.601	2.76+2.79+
Metropolitan	659,025	93.40	11,070	16.38+	158.1	2.664	
Rural	50,453	98.58	479	9.47-	178.4	1.750-	
Rhode Island Metropolitan Rural	132,332 132,332 0	97.59 97.59 0.00	1,780 1,780 0	13.44-13.44-0.00	195.6+ 195.6+ 0.0	2.656 2.656 0.000	1.72-1.72-0.00
Connecticut	396,761	97.56	4,400	11.13-	181.2+	2.051-	2.16
Metropolitan	384,627	97.50	4,228	11.04-	182.2+	2.050-	2.15
Rural	12,134	99.66	172	14.03	154.2	2.104	2.39
Middle Atlantic	4,707,584	98.68	60,016	12.78-	171.7+	2.234-	2.11 2.12 2.04
Metropolitan	4,221,762	98.55	51,634	12.26-	176.7+	2.214-	
Rural	485,822	99.76	8,382	17.28+	139.6-	2.403	
New York	2,143,249	98.98	28,503	13.04-	177.5+	2.380-	2.28+
Metropolitan	1,922,371	98.89	24,571	12.53-	182.8+	2.369-	2.29+
Rural	220,878	99.75	3,932	17.48+	142.7-	2.481	2.19

See notes at end of table.

Table 2. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Number 916,155 916,155
6.39	ത തത
7.76 72.603 15.35 168.5+ 2.587 7.13 7.145 7.15 14.48- 176.2+ 2.567 2.567 2.45 14.48- 15.17- 2.567 2.567 2.45 14.48- 15.17- 2.5639 2.60 14.643 15.13 172.9+ 2.627 2.627 2.605 2.609 2	
9.46 19,844 15.92 170.0 2.695+ 2.627 8.95 14,643 15.13 172.9+ 2.627 2.627 8.95 16.16+ 161.6 2.925+ 2.627 7.86 10,035 16.18+ 165.9 2.654 1. 7.01 5,985 15.10 17.97+ 158.1 2.829+ 2.552 9.41 4,050 16.18+ 172.5+ 2.815 2. 4.73 14,339 15.14+ 180.0+ 2.7479 2. 6.86 14,320 14.82- 167.8 2.479 2. 6.06 10,140 13.87- 179.7+ 2.500 2. 9.60 7,884 12.56- 173.0+ 2.007- 2. 9.43 4,351 11.57- 140.5- 1.933- 2. 9.44 4,351 14.05- 140.5- 1.932- 2. 9.44 4,351 11.57- 140.5- 1.932- 2. 9.43 4,351 14.05- 140.5- 1.932- 2.	
7.86 10,035 16.18+ 165.9 2.654 7.01 4,050 17.97+ 171.3 2.562 9.41 4,050 17.97+ 171.3 2.562 6.96 16.15+ 172.5+ 2.829+ 2. 6.86 14,320 16.16+ 154.9 2.479 6.86 10,140 13.87- 178.7 2.949+ 9.44 4,180 17.80+ 178.7 2.500 9.44 4,351 11.57- 179.7 2.007- 9.86 4,351 11.57- 147.7 2.599 9.86 4,351 11.57- 147.7 2.599 9.86 14,624 14.98- 1.993- 2.760+ 14,624 14.98- 158.9 2.760+ 2. 7.51 2.683 13.32- 162.1 2.599 7.07 2.683 17.76+ 141.3- 2.189- 7.07 2.683 17.54+ 143.1- 2.508 2.508 2.508 2.508	01 01 01
90 20,520 16.15+ 172.5+ 2.829+ 2.767+ 68 14,339 15.14+ 180.0+ 2.767+ 2.767+ 86 14,320 14.82- 167.8 2.479 2. 96 10,140 13.87- 17.97+ 2.500 2. 44 4,180 17.80+ 138.1- 2.413 2. 60 7,884 12.56- 158.4 1.993- 2. 43 351 14.05- 140.5- 1.993- 2. 50 40,299 17.70+ 147.7- 2.599 2. 82 14,624 14.98- 158.9 2.362- 2. 51 2,683 13.32- 162.1 2.189- 2. 307 2,683 17.54+ 143.1- 2.508 2. 55 3,989 17.54+ 143.1- 2.508 2.	999
6.86 14,320 14.82 167.8 2.479 2.500 40,140 13.87 179.7 2.500 2.413 2.443 2.450 2.443 2.444	തതത
.60 7,884 12.56- 158.4 1.993- 2.00743 533 11.57- 173.0 2.00786 40,299 17.70+ 147.7- 2.599 .51 25,675 19.74+ 141.3- 2.760+ .51 2,683 13.32- 162.1 2.18952 2.508	തതത
.50	க
7.30 6,672 15.55 150.8- 2.358 2. 7.07 2,683 13.32- 162.1 2.189- 2. 9.55 3,989 17.54+ 143.1- 2.508 2.	ത യ ത
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	Non-HMD	enrollment	Discha	arges	30-day post-admi	ission deaths	+
		As percent of all		Per 1,000 non-HMD	Per 1,0	er 1,00 non-HMD	deaths
Area of residence	Number	enrollees	Number	- 0	scharge	0	10S1
Iowa	404,057	9.3	, 37	9.9	51.	. 223	
Metropolitan Rural	136,818 267,239	98.24 99.96	2,039 4,334	15.10	150.1	2.235-	2.19
	655.875		.40	.3	54.	. 81	7
Metropolitan	383,255	96.99	6,254	16.01	161.9 146.4-	2.598 3.102+	2.09 2.18
	272,22) n				,	*
	85,433	00 0	1,976	21.76+	113.8-	1.894	2.13
Rural	62,469	1 m	r m	4.	9.60	. 68	0
00 ct t c c c c c c c c c c c c c c c c	96 216		55	4.7	22.	00.	-
Motor Cancar	20,21	0	344	16.38	141.2	2.290	1.77
3	75,789	.5	g-mi	8.9	19.	. 18	. 7
2 2 2 2 2 2	209,910	in	90.	8.0	43.	. 61	7
Metropolitan	70,076	95.86	1,094	15.15	178.5	2.721	2.41
Rural	139,834	6	96.	დ. დ	31.	. 56	ი.
7 7 7	307,796	5.8	, 25	9.2	51.	.880	7
Metropolitan	123,748	93.24	1,866	14.77	146.6	2.158-	2.05
Rural	184,048	9.	. 38	2.0	23	. 325	. 2
00 12 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	8.980.101	σ.	5,55	7.51	59.9	767	6.
Metropolitan	5,757,016	18.96	80,526	14.23-	169.6+	2.400-	1.79-
Rural	3,223,085	9.9	5,02	3.27	49.4	. 405	-
South Atlantic	4.668.855	ω.	5,75	4.4	65.	.361	00
Metropolitan	3,313,125	94.94	39,973	12.30-	169.9+	2.079-	1.71-
Rural	1,355,730	œ.	5,7	ر د د	20	2	7
Delaware	70,251	6.6	N.	0.70	57.		1.82
Metropolitan	44,055	10 0 00 0	4400	10.32-	134.1	7.255	٠.
スピーカー	069'67	n n	0				
Maryland	436,606	9.4	4	2.6	76.	. 22	0.
Metropolitan Rural	395,091 41,515	44.00 44.00.		13.82	172.1	2.336	2.05
	•	1	- 1	- 1	:	,	C
District of Col. Metropolitan Rurai	66,196 66,196 0	99.75 99.75 0.00	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	8.22- 0.00-	149 149 5.0	1.184-	2.30 0.00
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4							

Table 2. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

Table 2. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

Number 66,135 10,942 10,942 90,704 53,555		4	FILO	er 1.00	non-HMD	deaths per 1,000
555,199 10,944,25 10,944,25 10,944,25 10,70 10,7	5	Number	enrollees	discharges	101	persons
53,55 89,13	99.91 99.87 99.97	9,230 4,651 4,579	16.80+ 13.60- 22.06+	153.0- 164.7 140.9-	2.542 2.232- 3.050+	2.43+2.30+2.65+
89,13	98.98	5,219	21.50+	174.5	3.693+	2.30
	97.39	1,715	19.26+	167.4	3.161+	2.10
	99.95	3,504	22.80+	177.9	3.997+	2.42+
346,905 342,233	ოთ დ თ დ თ თ თ თ თ თ თ	9,609 4,206 5,403	14.59- 12.69- 16.53+	184.1+ 187.7+ 181.2+	2.669 2.385 2.958+	2.28+ 2.20 2.37+
329,020	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	4,655	15.09	158.1	2.342	2.20
186,873		2,350	13.49-	165.5	2.204-	2.58+
142,147		2,305	17.17+	151.1	2.519	1.71-
561,716	999.71	11,733	21.72+	153.6-	3.283+	2.23
313,319	999.54	5,347	17.88+	162.1	2.875+	2.12
248,397	93	6,386	26.49+	146.4-	3.786+	2.36+
1,705,534	90.97	18,666	10.96-	166.9	1.823-	1.23-1.22-
1,514,÷89	90.04	15,921	10.47-	169.8	1.778-	
191,045	99.17	2,745	14.98	148.9	2.214-	
1,726,272 873,594 852,678	000 000 000 40.00 700	39,620 15,855 23,765	22.99+ 18.46+ 27.49+	149.7- 159.9 142.9-	3.360+ 2.903+ 3.808+	2.09
422,657	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10,874	25.67+	150.9-	3.796+	2.41+
183,264		3,573	19.70+	163.9	3.175+	2.25
239,393		7,301	30.14+	144.5-	4.257+	2.53+
550,327 342,007 208,320	0 0 0 0 0 0 0 0 0 4 0 0 0	12,394 6,078 6,316	22.77+ 18.02+ 30.49+	155.9 161.6 150.3-	3.505+ 2.884+ 4.516+	2.25 2.13 2.45 45
463,131	70.00	9,431	20.62+	153.6-	3.063+	1.75-1.71-1.81-
281,960	70.00	5,106	18.56+	159.6	2.889+	
181,171	70.00	4,325	23.74+	146.5-	3.319+	
290,157	& & & & & & & & & & & & & & & & & & &	6,921	23.22+	131.6-	2.938+	1.86-
66,363		1,098	16.81	139.0	2.299	1.80
223,794		5,823	25.01+	130.2-	3.112+	1.88

Table 2. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986 deaths per 1,000 persons 1.75-1.64-2.22+ 2.24+ 2.12 1.89-1.85-1.98 1.70-2.35 1.57-2.49+ 2.50+ 2.43 2.03 1.85 2.11 2.24 2.19 2.28 2.16 2.14 2.19 2.12 1.48 2.29 30-day post-admission deaths Per 1,000 non-HMD enroilees 3.074+2.794+3.480+ 3.578+ 3.221+ 3.887+ 3.009+ 2.808+ 3.436+ 2.351-2.371-2.268-2.332-2.286-2.398 1.843-1.002-2.011-2.246-2.217-2.332 3.195+ 2.660 3.437+ 2.739 2.497 3.139+ 2.175 2.090 2.198 2.466 2.183 2.577 Per 1,000 discharges 160.4 175.2+ 146.1-170.8+ 183.1+ 152.9-169.3+ 178.4+ 138.4-135.6-154.1 117.2-150.7-170.5 129.6-114.4-128.7 111.2-129.1-111.4 131.2-54.9 69.6 50.4-119.2-145.5 112.5-154.4 157.0 147.7 158.8 169.1 152.1 Per 1,000 non-HMO enrollees 19.33+ 15.93+ 24.36+ 20.82+ 15.48 23.23+ 21.01+ 16.58+ 28.57+ 22.63+ 18.94+ 25.87+ 17.63+ 15.26 22.81+ 13.81-13.15-16.49+ 19.54+ 16.87 20.27+ 21.23+ 15.63 23.44+ 15.55 13.43-18.68+ 14.49 8.59-15.66 14.59-14.15-15.91 Discharges 18,307 9,425 8,882 50,185 24,698 25,487 62,449 47,818 14,631 1,910 352 1,558 3.917 2.853 1.064 8,7793,4345,345 25,787 15,291 10,496 1,583 156 1,427 903 188 715 6,776 1,567 5,209 8,8434,406 Number enrollees As percent of all 99.74 99.59 99.96 99.98 99.95 96.98 99.98 99.99 99.02 98.00 99.96 93.08 91.96 97.88 94.36 92.10 97.98 99.90 99.90 99.91 99.77 99.90 99.74 99.91 99.93 94.73 95.23 93.22 99.81 99.73 99.97 enroliment Non-HMD 1,200,638 720,893 479,745 97,248 21,173 76,075 42,408 12,265 30,143 378,716 180,038 198,678 1,468,551 1,021,156 447,395 539,951 642,859 897,092 266,663 201,737 64,926 2.584.974 1.570.297 1.014.677 321,739 100,966 220,773 415,968 268,137 147,831 109,822 18,471 91,351 Number 244 4·ω West South Central Metropolitan Texas Metropolitan Rural Montana Metropolitan Rural Arkansas Metropolitan Rurai Mountain Metropolitan Rural Metropolitan Metropolitan Area of residence Metropolitan Metropolitan Metropolitan Rural Metropolitan Louisiana Oklahoma Colorado Rural Rural Rural Rural Rural

See notes at end of table.

Table 2. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

ited States, 1986							
	Non-HMD	enrollment	Disch	arges	30-day post-adm	mission deaths	4:
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
Mew Mexico	125,371	92.49	2,652	21.28+	144.6-	3.111+	2.12
Metropolitan	51,612	85.86	797	15.85	179.2	2.964	1.79
Rural	73,759	97.76	1,855	24.96+	129.1-	3.210+	2.37
Arizona	348,748	91.33	4,552	13.64-	167.1	2.281-	1.97
Metropolitan	257,931	89.11	3,077	12.35-	183.0+	2.253-	
Rural	90,817	98.31	1,475	17.43+	133.3-	2.366	
Utah	128,579	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1,532	12.09-	166.7	1.970-	2.45+
Metropolitan	93,319		1,004	10.98-	185.7	1.999-	2.33
Rurai	35,260		528	14.98	130.4	1.893-	2.79
Nevada	81,799	86.15	1,258	17.00	179.9	3.059+	1.92
Metropolitan	64,385	84.73	998	17.21	178.8	3.069	1.74
Rural	17,414	91.83	260	16.27	184.2	3.024	2.62
Pacific	3,339,313	92.62	44,142	13.19-	176.7+	2.357-	2.24+
Metropolitan	2,921,966	91.93	38,393	13.08-	180.3+	2.389-	2.27+
Rural	417,347	97.77	5,749	13.97-	152.0	2.118-	2.03
Washington	461,706	92.41	5,676	12.26-	160.0	1.938-	1.95
Metropolitan	346,977	90.86	1,062	11.66-	163.5	1.865-	1.98
Rural	114,729	97.42	1,614	14.07-	151.1	2.102-	1.86
Oregon	303,778	88.089.384.50.38	3,261	10.63-	142.1-	1.491-	1.89-
Metropolitan	181,677		1,721	9.21-	140.8-	1.282-	1.90
Rural	122,101		1,540	12.85-	143.8	1.833-	1.87
California	2,477,248	93.71	34,047	13.72-	182.7+	2.549	2.35+
Metropolitan	2,330,007	93.36	31,908	13.64-	184.1+	2.557	2.36+
Rural	147,241	99.57	2,139	14.90	160.5	2.410	2.21
Alaska	16,348	99.78	295	19.73	103.4-	1.993	1.99
Metropolitan	5,625	99.75	100	21.02	154.9	3.309	
Rural	10,723	99.80	195	19.13	77.6-	1.426-	
Hawaii	80,233	83.64	863	10.89-	199.1+	2.207	2.04
Metropolitan	57,680	83.31	602	10.77-	204.9	2.228	
Rural	22,553	84.47	261	11.19-	186.2	2.159	
					1 1	A	

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 3. Pneumonia and influenza: Earollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 2.45+ 2.35 2.40 2.29 2.00 2.91+3.19 2.76+ 2.23 2.23 2.77 2.56+ 2.56+ 1.72-2.20+ persons 2.09 2.08 1.95 2.23 2.16 2.05 2.37 1.92 2.08 30-day post-admission deaths Per 1,000 non-HMD enrollees 2.153-1.728-2.267 2.051-1.856-2.127-1.996-2.495 2.189-2.666 1.510-2.015-2.601 2.674 1.996-3.235 2.779 2.893 2.272-2.234 2.942 2.656 2.656 2.383-Per 1,000 discharges 139.4-152.1 122.5 152.2 95.6+ 181.2+ 167.3 182.2 201.8+ 172.1 169.1+ 152.1 154.2 175.0 158 158 140 160 181 151 151 151 136.8 163.5 162.4 Per 1,000 non-HMD enrollees 15.90 16.58+ 14.07 19.22+ 14.98 14.26 11.23-13.07 13.44-11.13-10.92-11.44-14.28-13.20-14.42-15.86 17.53 12.02 13.49-16.67 15.50 Discharges 2,484 286 165 723 11,549 7,358 913 397 1,092 1,310 1,638 503 384 1,067 1,780 4,400 1,055 1,789 387 22,918 413,840 Number 82,934 As percent enrollees 80.00 80.00 98.98 97.91 99.52 99.82 93.75 95.67 98.67 91.00 79.57 97.56 96.63 99.16 95.31 96.70 98.04 96.20 99.88 99.87 of all Non-HMO enrollment 709,478 429,794 65,540 20,281 72,225 71,185 153,209 16,035 13,464 52,846 114,752 44,397 29,738 62,781 132,332 396,761 96,911 157,139 102,964 27,613 1,569,313 Rumber 26,698,924 6,276,897 Lewiston-Auburn, Portland, ME Area of residence Boston, MA New Bedford, MA Pittsfield, MA Springfield, MA Worcester, MA Manchester, NH Portsmouth, NH Massachusetts Connecticut Bridgeport, CT Hartford, CT New Haven, CT New London, CT Burlington, VT Providence, RI Rhode Island United States New England Bangor, ME Vermont Northeast Maine

See notes at end of table.

Table 3. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

Area of residence Middle Atlantic		0 2 1 0 1 2	10010	arges	30-day post-adn	MISSION DESCUS	4
Atlanti	Number	As percent of all enrollees	Number	Per 1,000 non-HMO enrollees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000 persons
	4,707,584	98.68	60,016	12.78-	171.7+	2.234-	2.11
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New York	. 24	ו ה	> (, ,		9 4	4
Ibany, MY	112	•	8	'n.	70	9 6	•
Binghamton, NY	, 57	6	21	÷		0	ŗ
Buffalo, NY	1.45	9.	0	0	. 98	.05	٦.
XX RIELL	69.	ο.	16	6	158.6	1.950	1.74
one Falls	22	9	4	6	38.	.13	o,
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iagara Falls,	, 04	0.6	٧,				- Œ
range County, N	. 48	20	-4 1	21.0			
oughkeepsie, N	.86	4.	46	6.21	2	9 1	∹ '
ochester.	. 54	æ	9	'n	78.	.17	
VENCUSE.	. 21	6	77	0.42	93.	.05	0
+ 1 1 2 1 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	46.733	0	632	13.60	62.	. 25	۲.
		•	1				
	6.15	00	9	. 22	89.	.176	1.97-
- A + - O	46.40	6	43	9.34	93.	.871	9
0.0000	1 24	4	CC)	0.88	96	.227	ω.
2 2 2 2 4 4 4 4	64.06		73	1.72	45.7	693	6
La vere	1.00	7	03	2.0	68.	.07	0
	54 64	٧.	55	0.28	97.2	.097	9
	7.7	4	(C)	1.56	89	. 265	۲.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	28 40		45	2.17	67.3	.04	7
	16,382	96.17	172	10.85-	203.9	19	8
					1		•
Pennsylvania	1,648,180	98.75	21,447	13.30-	155.1-	2.061-	1.95-
llentown,	99,	0	0.	1.29		100.	9 1
Itoona, PA	. 69	6		8.0 0.0	24.	. 500	2 ?
eaver	, 56	<u>ق</u>	9	8.0	9 6	20.0	າເ
rie, PA	. 24	6	\sim	4.08	27.	77.	. 60
arrisburg,	, 92	6.	œ	9.5	3	. 625	٦.
ohnstown, P	,26	6.	0	5.7	44	. 355	. (2
a n	.04	6	-	დ 	71.	. 35	٠.
hiladelphia	5	8	90	. 28	76.	. 181	Ξ,
	23,49	0.	, 57	4.71	90	.38	ۍ. د
eac	48,47	8	2	7.3	93	.3.	91
cranton,	, 88	6.	N	2.15	99	.026	•
hai	00.	6	9	4.0	17.	. 19	?
tate College,	,03	6.	S		42.	.05	7.
illiamsport, PA	,87	6	974	2.7	83	.05	. ·
ork, PA	, 54	σ.	œ	0		. 33	9

Table 3. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD 6	enroliment	Dischi	arges	30-day post-adm	-admission deaths	
				,		•	
		As percent of all			er 1,00	→ 1	per 1,000
Area of residence	Number	0	Number	- -	discharges	- -	
North Central	6,901,975	96.39	112,902	16.11+	160.9	2.591+	2.13
East North Central	4,745,430	97.76	72,603	15.35	168.5+	2.587	2.11
0.4	86	9.4	80	5.9	70.	. 69	0.
Akron OH	75.61	9.9	1,245	6.7	68.	. 86	0
Canton, OH	83	9.9	_	4.0	59	. 22	ი (
Cincinnati, OH-KY-IN	40	9.9	٠,	7.1	73.	. 95	. ·
	58	9.7	3,230	3.73	82.	. 52	ص ر
Columbus, OH	,37	9.7	,	8	72.	. 53	ρç
Dayton, OH	54	9.9	4.	5.5	9/	9.	7
Hamilton, OH	00.	9.9	4	8.1	15	6.	7
Lima, OH	, 57	9.9	304	15.4	43.	. 12	٠, ۱
Lorain-Elyria, OH	34	9.8	40	16.9	56.		, G
Mansfield, DH	, 23	6.6	163	0.1	90	. 29	٠,
Steubenville, OH-WV	. 93	8.5	4	2.91	, ()	. 23	፣ የ
Toledo, DH	70,660	20.00 00.00	1,064	15.17	144.3	2.1/6	1.93
Youngstown, OH	31	วา วา	er er	?	. 7		
	90.	7.8	10,035	6.1	65.		
Anderson IN	17.19	9.8	7	3.6	47.	ო.	
Bloomington, IN	7.91	9.6	76	2.2	333	9.	. 7
Elebart-Goshes, IN	5,64	9.9	153	9.6	42.	က္	œ 1
- K Y	4,43	5.7	297	7.20	153.5	2.546	1.70
Fort Wayne, IN	7,56	7.7	445	7.1	44	0.0	٥,
Gary-Hammond, IN	1,16	7.0	~	3.48	60 0	7 0	
н	8,40	დ. (1,929	0 1 G	. 7 /	9 4	r a
Kokomo, IN	0,84	ດ. ດ	701		9 0	P (4	
Lafayette, IN	1,22	ي د	160	. A	. 7 .		11
E TE	2,10	n a n a	442	. m	. 69	1	9
Haute,	19,585	68.66	318	16.20	4	٠.	œ
	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0	C	7 - 7	73	Œ	. 26
	70,0	n 4	20,0		0 0		00
AUTOTA-EISIN, IL	7 7 7 7		2 4	2.30	6.4	0	. 28
٦_	200	n 0	2 10	1.36	48.	. 7	2
	8.13	2.9	ന	4.8	89.	.885	. 44
Decatur, IL	5,99	6.6	22	3.65	20.	9.	. 19
Joliet, IL	8.04	7.1	9	7.0	61.	٠.	٠.
	2,02	6.6	63	9.5	86.	w,	Ö
Lake County, IL	60,9	6.5	00 I	6.69	900	٠,	9 9
Peoria, IL	3,54	თ (- 4	ж с	4 m	, c	, , ,
Springfield, IL	28,351	D Q	0 00 0 01 0 01	9 0	141.8	2.268	2.11
		,					
See notes at end of table.							

Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare Table 3. enrollee: United Si

+	deaths per 1,000	11/4	22.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	2007	108008773946	2.18+ 2.33+ 2.35 1.38	22.1.1.1.1.2.2.2.2.3.3.3.3.3.3.3.3.3.3.3
ission deaths	Per 1,000 non-HMD enrollees	75.	2.770+ 2.579 1.872- 1.380-	. 47 . 75 . 83 . 87	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.599 2.358 1.831- 1.259- 2.422	2.523- 2.524- 3.396+ 1.681 2.854- 2.854- 2.122
30-day post-adm	Per 1,000 discharges	557.	171.0 194.4+ 173.9 108.2-	21.8 31.7 47.2		147.7- 150.8- 156.8 105.8 105.8	151.0- 165.7 191.6 138.4 148.2 177.4
Secre	Per 1,000 non-HMD enrollees	4101	17.04 14.07- 15.57 10.78- 13.02	64.00 G G G G	12.56- 11.56- 15.06- 10.28- 10.928- 12.00- 12.00- 13.33- 13.33- 13.33-	17.70+ 11.55- 11.63- 12.56- 15.53	14.91 15.48 17.83 15.07 10.91- 16.33
Disch	Number	NON	364 6,150 658 704 219	3343	7,884 265 265 176 241 147 135 2,630 193 109	40,299 6,672 355 2,076 125 206	6,373 900 800 619 128 258 254
nro!!ment	As percent of all enrollees	9.20	99.88 96.43 95.42 99.82	9.00.0	00000000000000000000000000000000000000	93.50 77.30 76.74 99.67 70.92	00000000000000000000000000000000000000
Non-HMD e	SE DE P	7,76	21,618 448,826 43,084 64,091 17,046	1,51 2,46 8,95 2,16	611, 044 34, 483 16, 955 11, 955 11, 859 10, 775 166, 813 12, 613 12, 661	2,156,545 397,258 29,977 141,769 12,248	404,057 19,323 44,646 40,067 11,460 15,951 19,521
ited States, 1986	Area of residence	Michigan Ann Arbor, MI Battle Creek, M	t, MI MI MI Rapids,	A C B B B B B B B B B B B B B B B B B B	Wisconsin Appleton, WI Eau Claire, WI Green Bay, WI Janesville, WI Kenosha, WI Lacrosse, WI Madison, WI Milwaukee, WI Racine, WI Sheboygan, WI	West North Central Minnesota Duluth, MN-WI Minneapolis, MN-WI Rochester, MN St. Cloud, MN	Cedar Rapids, IA Davenport, IA-IL Des Moines, IA Lowa City, IA-NE Sioux City, IA-NE

Table 3. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 Total deaths per 1,000 1.84-2.13 2.11 2.15 2.27 2.09 2.09 2.13 1.39 2.37 3.79 2.16 1.84 1.73 2.11 2.22 2.59 2.15 3.67 2.07 1.51 1.91. $\frac{1.82}{1.75}$ 2.03 2.12 2.11 2.02 2.30 30-day post-admission death Per 1,000 non-HMO enrollees 2.477 1.425-2.124 2.387 3.004+ 1.552 2.656 2.880+ 3.299 1.671-2.329 2.811+ 2.907 2.614 2.437 3.048 2.657 2.398 1.687-2.225-2.277-3.303 1.184-2.361 -2.767+ 2.612 1.843 3.017 Per 1,000 discharges 154.3-136.8 141.5-175.4 113.8-91.9-148.7 143.9-182.5 164.8 22.4-01.8 59.0 151.6-198.9 137.2 168.1 176.1 179.2 154.6 193.1 59.9-57.9 165.6 5 Per 1,000 non-HMD enrollees 18.37+ 19.24 17.34+ 17.22 15.79 21.76+ 15.81 14.03 10.70-12.60-12.58-21.49+ 9.84-24.74+ 15.13 17.02 18.02+ 10.30-18.08+ 19.20+ 18.23 12.32-14.03 17.51+ 14.41-8.22-Discharges 12,403 130 370 2,744 4,514 4,514 2,558 108 236 6,254 96 248 657 1,976 132 214 85 4,063 227 1,065 5,344 2,983 357 141 569 725 Number 155,555 65,750 As percent of all enrollees 998.17 999.98 995.95 997.97 997.43 98.28 95.13 96.57 99.95 000.00 000.00 000.00 98.52 98.50 95.39 95.82 87.78 97.26 88.57 99.94 99.75 97.94 96.31 Non-HMO enrollment 655,875 8,560 19,275 154,919 13,630 283,167 27,676 85,433 8,160 14,138 5,687 96,216 7,152 13,275 209,910 20,994 57,609 307,736 4,965 18,983 45,844 436,606 244,878 17,051 14,522 70,251 58,114 66,196 261,121 4,668,855 Number 8,980,101 District of Coi. Washington, DC-MD-VA Delaware Wilmington, DE-NJ-MD Missouri Columbia, MO Joplin, MO Kansas City, MO-KS St. Joseph, MO St. Louis, MO-IL Springfield, MO Baltimore, MD Cumberland, MD-WV Hagerstown, MD Area of residence North Dakota Bismarck, ND Fargo, ND-MN Grand Forks, ND South Dakota Rapid City, SD Sioux Falls, SD South Atlantic Nebraska Lincoln, NE Omaha, NE-IA Lawrence, KS Topeka, KS Wichita, KS Maryland Kansas South

See notes at end of table.

Table 3. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

HMD Per 1,000 non-HMD lees discharges enrollees discharges discharges enrollees discharges disch
153.0- 156.8 156.8 156.8 157.0- 158.0
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122 151 1 1 1 1 1 1 1 1
23
23 134 134 134 134 134 134 134 13
20. 20. 174.5 3.693.5 4.42.4 15.69.7 1.836.9 1.83.6
134 134 134 137 137 137 144 154 154 168 168 168 168 168 168 168 168
134 122+ 122+ 132+ 154.7 158.6 168.6 168.6 168.6 168.6 168.6 168.6 168.6 168.6 168.6 168.6 168.6 168.6 168.1 168.1 168.6
22+ 154.7 2.878 32+ 168.6 3.916 88-1 184.1+ 2.669 88-1 186.0 1.836 83- 188.1 1.674 81 1.25.7 1.826 81.1 1.647 80.0 158.4 2.342 81.1 1.647 80.0 158.4 2.342 81.1 1.647 82.342 82.3 157- 153.6 2.342 83.523 83.524 83.609 842+ 155.1 2.968 842- 154.4 2.342 852- 154.4 2.342 852- 154.4 3.609 852- 154.4 3.609
32+ 193.5 3.916 42+ 168.6 3.424 88 146.0 146.0 59- 146.0 1.836 83- 182.4 2.659 83- 182.4 2.534 83- 1.647 2.532 81 1.55.7 1.647 17- 122.9 2.548 180.7 189.8 2.548 196- 180.7 1.647 197- 122.9 1.740 197- 122.9 1.740 195.9 2.548 2.548 195.9 2.548 2.548 195.9 2.548 2.548 195.9 2.548 2.548 195.9 2.548 2.548 195.9 2.548 2.548 195.9 2.739 3.520 197.2 3.522 3.522 198.8 3.522 3.522
42+ 168.6 3.424 88 184.1+ 1.836 88 198.1 1.836 83- 188.1 1.636 83- 1.62.4 2.334 87- 122.0 2.533 81 1.65.7 1.64.9 17- 1.65.7 1.64.9 17- 1.65.7 1.64.9 17- 1.65.7 1.64.9 180 1.66.0 2.511 190 1.740 2.34.2 190 1.740 2.34.2 122.9 1.740 2.34.2 195.9 2.54.2 2.54.2 195.9 2.54.2 2.54.2 152.9 3.55.0 2.72.9 152.9 3.52.3 3.52.3 154.4 2.73.2 3.52.2 155.7 2.73.2 3.52.2 154.4 2.73.3 3.52.2 152.9 3.52.2 3.52.2
2.669 184.14 1.836 1.836 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.837 1.848 1.848 1
29
29
83- 83- 83- 81- 192.4 81- 194.9+ 176.1 196.3 197- 197- 198.4 2.942 198.4 2.943 2.943 2.943 2.943 2.943 2.943 2.943 2.943 2.943 2.944 2.943 2.944 2.944 2.944 2.945
83- 87- 51- 194.9+ 91 175.7- 199.8- 109.7- 199.8- 109.7- 190
. 61 - 124.0 . 61 - 176.1 . 91
101-117-125-7-117-125-7-
171 172 171 172 173 174 175 175 175 175 175 175 175 175
17- 29 188.4 2.482 91 180.7 191 180.7 11.740 2.342 192.9 195.9 2.729 2.594 2.3283 2.32- 195.9 2.594 2.3283 2.3383
.29 .09 .09 .09 .09 .09 .09 .09 .0
158.4 91.17.0 196.1 147.0 196.1 180.7 107.1 1.740 107.1 158.4 107.1 158.4 105.9 105.9 105.1 158.1 105.1 158.1 105.1 158.1 105.1 158.1 105.1 158.1 105.1 158.1 105.1 158.1 105.1 158.1 105.1 158.1 105.1 158.1 106.1 158.1 107.1 158.1 108.1 158.1 109.1 158.1 1
91 147.0 2.817 96- 180.7 1.740 42+ 134.0 2.729 42+ 195.9 2.594 .23- 155.6- 3.283 .72+ 2.05.8 3.283 .60 2.65.8 3.283 .05+ 156.1 3.167 .05+ 156.1 3.167 .07 2.46.4+ 3.669 .71 200.3 3.522
96- 122.9 142+ 122.9 1.408
.57- 122.9 1.408 .42+ 134.0 2.729 .23- 195.9 2.729 .72+ 205.8 3.520 .60 205.8 3.520 .05+ 156.1 3.167 .07 154.4 2.735 .53 246.4+ 3.609 .71 200.3
. 42+ 134.0 2.729 .23- 195.9 2.594 .72+ 153.6- 3.283 .60 156.1 3.167 .90+ 156.1 2.7 2.705 .07 246.4+ 3.609 .53 246.4+ 3.609
.23- 195.9 2.594 .72+ 153.6- 3.283 .60 205.8 3.520 .05+ 156.1 3.167 .90+ 152.7 2.705 .07 246.4+ 2.739 .53 246.4+ 3.609 .71 200.3 3.522
.72+ 153.6- 3.283 .60 205.8 3.520 .05+ 156.1 3.167 .90+ 152.7 2.705 .07 246.4+ 2.739 .53 246.4+ 3.609
.60 205.8 3.520 .05+ 156.1 3.167 .07 154.4 2.739 .53 246.4+ 3.609
.05+ 156.1 3.16/ .90+ 152.7 2.705 .07 154 2.705 .53 246.4+ 3.609 .71 200.3 3.522
.90+ 152.7 2.705 .07 154.4 2.739 .53 246.4+ 3.609 .71 200.3 3.522
.07 154.4 2.739 .53 246.4+ 3.609 .71 200.3 3.522
.53 246.4+ 3.609 .71 200.3 3.522
275.5 5.00.2
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7.7.

Table 3. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 persons 1.23-1.35-2.41+ 1.85 2.37 2.13 2.25 2.35 2.35 0.90-2.37+ 1.74-2.15 2.09 Total 30-day post-admission deaths Per 1,000 non-HMD enrollees 3.796+ 3.059 3.462+ 3.329 3.505+ 1.984 2.455 2.800 2.457 2.857 3.360+ Per 1,000 discharges 150.9-194.6 171.0 1555.9 158.3 1455.1 175.1 156.6 171.9+ 149.7-Per 1,000 non-HMD enrollees 10.966 10.966 10.966 10.966 11.956 25.67+ 16.17 20.20+ 22.49+ 22.77+ 21.42+ 21.42+ 13.56 13.56 17.91+ 12.45-20.67+ 22.99+ Discharges 18,666 1,012 1,014 1,020 1,020 1,030 1 10,874 503 2,137 2,226 12,394 1,043 1,271 1,268 1,232 1,907 Number 39,620 As percent of all enrollees 990.97 990.97 990.97 990.05 900.05 90 99.70 98.87 99.20 80 Non-HMO enrollment 1,705,534 42,906 62,606 611,428 611,428 10,1698 10,1698 10,1698 10,1698 10,1698 10,1698 10,1698 11,428 11,433 11,484 11,811 11,811 12,906 11,811 11,8 550,327 12,061 10,064 55,068 70,970 88,836 422,657 31,008 107,485 10,319 Number 1,726,272 Bradenton, FL
Daytona Beach, FL
Fort Lauderdale, FL
Fort Myers, FL
Fort Pierce, FL
Gainesville, FL
Lakeland, FL
Miamiourne, FL
Tallando, FL
Sarasota, FL
Tallanassee, FL Chattanooga, TN-GA Clarksville, TN-KY Jackson, TN Lohnson City, TN-VA Knoxville, TN Memphis, TN-AR-MS Nashville, TN Tampa, FL West Paim Beach, FL East South Central Lexington, KY Louisville, KY-IN Owensboro, KY Area of residence Kentucky

See notes at end of table.

Table 3. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

4	deaths	erson	1.75-	7	0.	. 30	0	. 92	٦.	. 91	.95	9.	∞.	. 50	6	2.12	:	1.94-	2.03	٠.	Ξ.	0	. 5		'n	4.	1.67	9	0	*	س .	0	.2	9.	ഹ	2.11	. 7	
ission deaths	1	- 0	3.063+	. 289	. 92	. 21	. 46	. 85	.36	. 22	. 75	.47	. 93	.87	9.7	0.410	•	3.074+	3.195+	80.	. 61	. 26	. 68	. 73	. 18	. 68	3.208	. 30	. 16	. 75	. 98	. 29	.57	.04	.36	2.993	.57	
30-day post-admi	er 1,00	discharges	53	87.	57.	28	31.	81.	37.	54.	79.	ò	31.	4	20			160.4		58.	75.	65.	43.	35.	53.	84.	188.0	93.	34.	21.	51.	44	58.	33.	73.	157.5	86.	
arges	Per 1,000	- 0	. 62	4	. 88	. 50	9.	7	.81	9	*	20.58+	3.22	0	5.0	20.00	0	19.33+	ω.	***	.33	4.	3	.01	. 52	.11	17.45	æ	.79	e	.34	9	2.6	5.9	8.6	18.99+	8.9	
Disch		Number	9,431		2,032	253	318	371	289	713	4 1 10 1 10	281	0	1 14	0	000	0	50,185	_	22	ന	8	133	8.843	30	582	221	256	373	474	1,562		_	13	4	.70	1,342	
enroliment	As percent	20	6.6	9.9	9.9	9.9	9.9	6	0	0	. 0	66.66	a		1 0	0 00 n 0 n 0		99.74	ტ ტ	6	6	6.6	99.98	6	6	6	0	9.9	9.9	6.6	9.9	96.66	0.6	6.6	6.6	7.4	98.13	
Non-HMD e		Number	463,131	13,124	108,546	12,690	16.687	14, 295	17, 137		00.00	13,604	200 157	"	20.00	33,400	a, 556	2,584,974	321,739	11.803	21.413	50,966	11,012	415.968	13.819	39,583	13,501	14,620	16.436	14.648	118,708	36,822	378.716	8.215	8.221	88.646	71,032	
		Area of residence	Азраща	Anniston, AL	Birminsham, AL	Dothan, AL	Florence, Al	Contractor A	10				9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	- 0		Dackson, ms	rascagoula, my	West South Central	Arkansas	Favetteville, AR	: 1	~	Pine Bluff, AR		A - without A	aton Rouge		•	Lake Charles, LA	1	New Orleans, LA	LA	of a land	Enid OK	Lawton OK	Oklahoma City, DK	Tuisa, OK	

Table 3. Pneumonia and influenza: Enroliment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD e	enrollment	Disch	arges	30-day post-adm	mission deaths	
		6		-		-	- Ota
1		0f all		non-HMD	Per 1	non-HMO	
Area of residence	Number	- 0	Xcaber		scharge	<u>و</u>	=
3	1 468 551	α	25.787	7	0	00.	ω.
0000	_	0		m	5	. 79	*
- 0	19.063	6	280	5	-	. 26	6.
Anstin TX	47.578	6	628	ω,	3	. 28	0.
Bea = Boot TX	42,323	6.	759	æ.	5	. 14	4
Brazoria	12,486	7	240	。	5	. 39	7
Brownsville, TX	20,169	8.	255	'n	ċ	. 84	9
Bryan, TX	6,955	σ.	98	6	8	60.	. 38
Corpus Christi, TX	28,417	.5	4	7	6	. 084	* (
Dailas, TX	172,118	9.9	2,545	2	•	. 28	Ņ
El Paso, TX	37,292	g. (٠ م	4.1	ġ.	.00	. 64
Fort Worth, TX	97,947	D (4. (n e	•		90
Galveston, TX	19,3/6	אַ מ	4 L	, 10		.77	· 0
	17 182	0	. m	7	0	. 14	2
	8.421	6	132	5	θ.	. 78	7
×	20,547	6.	268	5	5.	. 76	۲.
Lubbock, TX	18,957	9.9	374	0	B	. 408	. 23
McAilen, TX	27,402	ω.	441	٠ و		. 52	4.1
Eldland, TX	7,362	90.00	m 4	13.31	233.	3.2/3	1.43
Odessa, TX	9,207	אַ פּ	0 - 0	٠.	Fø	7.5	9
San Angelo, IX	11,713	3.6	4	. m		.08	96.
< =	14,532		. ~	6.91	0	. 56	4.
. &	15,315	6.	328	0	2	. 59	6.
	18,223	6.	339	8	m	.80	۲.
Victoria, TX	6,871	9.9	129	· •	, In 1	.34	w.
	23,624	6.6	265	≓.	ė.	1.8	٥, 4
Wichita Falis, TX	14,462	٠ ق	224	'n		17.	n.
West	4,539,951	93.08	62,449	13.81-	169.3+	2.351-	2.22+
Mountain	1,200,638	94.36	18,307	15.55	150.7-	2.332-	2.16
Montana	97,248	6.0			114.4-	2.175	21.12
Billings, MT Great Falls, MT	12,097	99. 99. 90.	174	19.31	16.	.12	
Idaho	109,822	77.66	1,583	14.49	129.1-	1.843-	1.70-
Boise City, ID		ດ ດ	S)	3	11.	9	3
Wyoming Casper, WY Cheyenne, WY	42,408 5,379 6,886	99.91 99.91 96.95	903 84 104	21.23+ 16.03 15.33	119.2- 129.9 157.3	2.466 1.929 2.381	2.46 1.59
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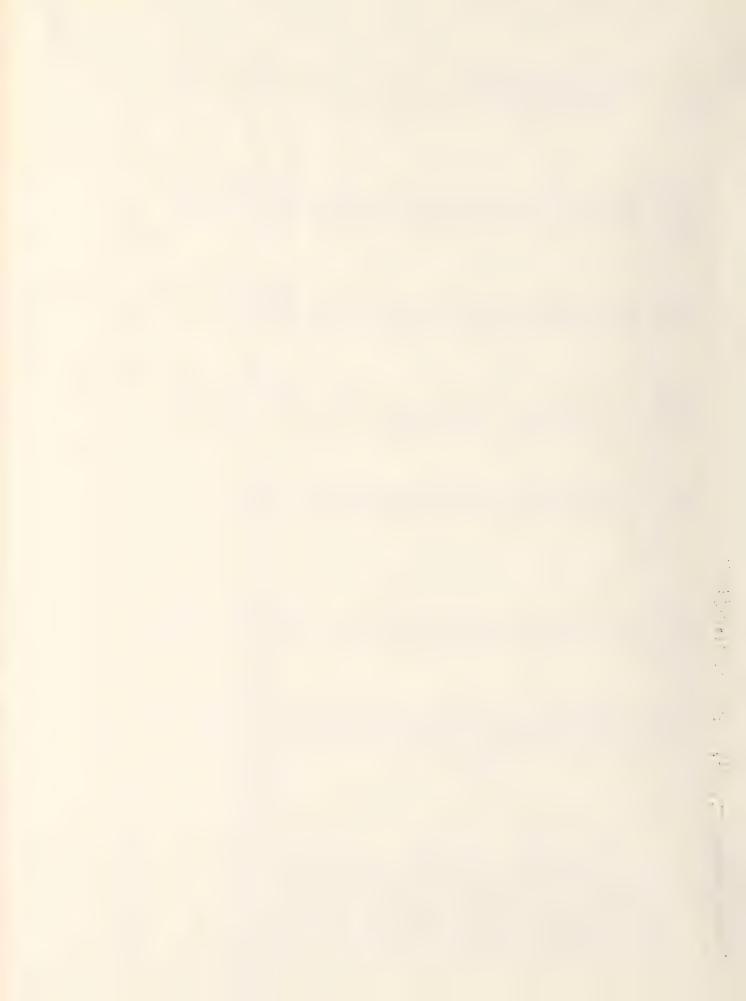
Table enrol

Medicare tistical area:	4	deaths per 1,000 persons	2.53 2.57 2.57 2.59 2.35 4.6	2.12 1.98 1.55 1.19-	1.97 1.93 2.13	2.45+ 3.35+ 2.12	1.92 1.64-	2.24+	1.95 1.78 2.08 2.00 2.00 1.79 1.79	1.89- 1.68 1.68 1.87
deaths for aged etropolitan sta	ssion deaths	Per 1,000 non-HMO enrollees	2.246- 1.506- 1.700- 2.427 2.015 1.887	3.111+ 2.657 4.037 3.003	2.281- 2.150- 2.518	1.970- 2.604 1.875-	3.059+ 3.641+ 1.829	2.357-	1.938- 1.336- 1.708- 2.150 2.150 1.822- 1.823- 1.497-	1.491- 1.116- 1.352- 1.269-
ost-admission , State, and m	10-day post-admi	Per 1,000 discharges	1130 4081 1130 1156 1156 1156 1156 1156 1156 1156 115	144.6- 178.8 204.8 152.7	167.1 181.1 187.4	166.7 206.6 180.5	179.9 194.8 131.8	176.7+	150 1110 1010 1010 1010 1010 1010 1010	142.1 1342.1 115.1 143.8 152.8
scharges, and P on and division	arges 3	per 1,000 non-HMO enfollees	14.59 12.06 12.53 15.35 12.98 12.98	21.28+ 14.40 18.81 18.28	13.64- 12.01- 13.23-	12.09- 13.30 10.49-	17.00 18.70+ 13.83	13.19-	12.26 11.84- 11.36- 13.26 11.23- 11.23- 13.38	10.63- 8.08- 9.94- 9.68-
y hospital dis y census regio	Discha	Number	3,917 1,888 1,834 1,834 153	2,652 472 172 153	4,552 2,166 911	1,532 209 795	1,258 752 246	44,142	5,676 166 174 174 1,809 1,809 147 309	3,261 233 200 1,000
Enroliment, short-sta the aged population, b	enroliment	As percent of all enrollees	94.73 97.73 95.03 94.10 99.71 4.43	92.49 81.01 99.94 93.66	91.33 86.74 96.06	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	86.15 82.98 89.17	92.62	9992.41 999.999.59 990.998 90.394.51 990.324 745.74	86.84 88.67 99.78 72.79 90.39
nfluenza: rate for 1	Non-HMD	Number	266,663 15,143 24,899 119,624 15,089 11,610	125,371 33,783 9,375 8,454	348,748 187,381 70,550	128,579 16,076 77,243	61,799 45,252 19,133	3,339,313	461,706 13,629 15,439 14,254 12,559 159,828 41,237 17,048 22,738	303,778 28,947 20,326 99,155 33,249
le 3. Pheumonia and in collees and total death ted States, 1986		Area of residence	Colorado Boulder-Longmont, CO Colorado Springs, CO Denver, CO Fort Collins, CO Greeley, CO	New Mexico Albuquerque, NM Las Cruces, NM Santo Fe, NM	Arizona Phoenix, AZ Tucson, AZ	Utah Provo-Orem, UT Sait Lake City, UT	Nevada Las Vegas, NV Reno, NV	Pacific	Washington Bellingham, WA Bremerton, WA Olympia, WA Richland, WA Rochland, WA Spokane, WA Tacoma, WA Vancouver, WA	Eugene, OR Medford, OR Portland, OR Salem, OR

Table 3. Pneumonia and influenza: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD	enrollment	Disch	Discharges	30-day post-admission	ission deaths	
				4		, , ,	1000
		As percent		Per 1,000	~	1,000	0000
				DMH-HOH	101		her T.ooo
Area of residence	Number	enrollees	Number	enrollees	discharges	enrollees	persons
	9 477 948	02 71	34.047	13.72-	182.7+	2.549	2.35+
	0171117	000	2 478	14.70	202.3+	3.113+	2.31
20	101,101	D . D .	000			A 079	2 55
Bakersfield, CA	44,969	99.16	932	71.50+	130.7	4.0.4	2.00
	27,102	60.66	413	15.45	183.8	2.861	2.28
	58.425	06.66	725	12.22-	197.6	2.443	2.06
	677 030	91.40	10.303	15.00	184.8+	2.865+	2.37+
י מי מי ני מי מי מי מי	12 453	200	,	17.98	122.1	2.197	2.51
ر	201.00		800	18.32	183.8	3.328	3.29+
	100,013	9000	2 175	11.57-	189.8+	2.231-	2.22
	100,200	00.00	2557	13 67	159.1	2,197	2.21
Dxnard-Ventura, CA	4,400	+ · · · · · · · · · · · · · · · · · · ·		000		0.54	2 15
Redding, CA	17,796	66.69	022	10.01	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
Riverside, CA	203,246	90.92	3,158	15.75	+4./81	7.930+	7.80+
_	120,273	91.81	1,487	12.70-	190.1+	2.429	2.48+
	29,131	98.66	279	9.26-	158.6	1.517-	2.53
Can Diego	205.402	91.35	2,335	11.45-	184.4+	2.158-	2.09
	163,753	89.02	1,709	10.04-	182.8	1.859-	2.31
	105.258	06.96	1.027	9.84-	190.8	1.893-	1.67-
C &	38 021	02.00	366	9.33-	192.5	1.781-	1.94
• <	24 640	22.00	327	12.58-	130.6	1.646-	2.20
) (44 775	4 0	581	12.81-	141.4	1.782-	2.68
ر ج	40.85	01.0	580	13.92	184.5	2.648	2.37
) { =	25,778	9	481	13.41	160.4	2.446	2.28
٠ د	0000	000	000	20.68+	162.2	3.312	2.59
ומפוופי כא	110.07	1000	0000	10.52	140.1	2,787	2.77
Yuba City, CA	11,635	00.77	177	40.5	4		
м ч ч	16.348	7	295	19.73	103.4-	1.993	1.99
Anchorage, AK	2	99.75	100	1.0	154.9	. 30	
	80 033		863	o	199.1+		2.04
HOROLUTE: HI	57,680	e e	602	77	204.9	2.228	1.84

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).



Diseases of the gallbladder

post-admission death rate per 1,000 enrollees discharges). This rate was less than one-half of the 30-day post-admission mortality rate In 1986, there were 167,468 discharges in of the gallbladder, giving an overall rate for which the principal diagnosis was a disease post-admission mortality was slightly more persons for diseases of the gallbladder was these diseases of 6.27 discharges per 1,000 was 0.20. The death rate among all aged for all hospitalizations (79.6 deaths per than 3 percent (31.7 deaths per 1,000 aged Medicare enrollees. The 30-day 1,000 discharges). The 30-day 0.11 per 1,000.

Age and sex patterns

men, both as a rate per 1,000 discharges and rates in the two older age groups. Across all for men in the age group 65-74 years (6.09 discharges versus 5.20), but they had lower 30-day post-admission mortality rates than age groups, women consistently had lower approximately 17 percent higher than that Women had a discharge rate as a rate per 1,000 enrollees.

disease increased with age for both men and women. From the youngest to the oldest age percent for men. The 30-day post-admission among the aged population for gallbladder Hospital discharge rates and death rates increased by 24 percent for women and 52 groups, the hospital discharge rates

NOTE: Diseases of the gallbladder is ICD-9-CM

persons aged 65-74 years to 78.5 deaths for disease increased 4.6 times with age, rising from 17.1 deaths per 1,000 discharges for death rate associated with gallbladder persons 85 years or over.

Patterns by race

which white persons had a higher death rate. similar for black persons and white persons The discharge rate for white persons was for all age-sex groups except the oldest, in that for black men (6.22 versus 2.83), and rate for white men was more than double persons (6.46 versus 4.07). The discharge 59 percent higher than the rate for black the rate for white women was 35 percent (6.62 versus 4.89). The population death ate (deaths per 1,000 aged persons) was higher than that for black women

The 30-day post-admission mortality rates greater severity of illness for black persons higher for black than white persons for all post-admission death rates likely reflect a age-sex groups except the oldest women per 1,000 discharges were substantially These differences by race in the than for white persons.

Variations by geographic area

and mortality by geographic area. The tables are broken out by U.S. census region, Tables 2 and 3 contain data on utilization in Table 2, whereas data at the metropolitan and rural areas within each State are shown division, and State. Data on metropolitan

Table 3. Figure 1 was derived from the data statistical area (MSA) level are shown in n these tables.

Discharge rates

State was 8.80 discharges per 1,000 enrollees incompleteness of the discharge data for the by California, with a rate of 4.68 (Table 2). Division. The highest discharge rate of any 2.46 in the District of Columbia, followed likely results from its relatively large black The low rate for the District of Columbia in North Dakota, and the lowest rate was ate was found in the East South Central Pacific Division, and the highest median Data on each U.S. census division are lowest median discharge rate was in the shown in the boxplots in Figure 1. The Medicare population and from the District of Columbia

Population death rates

persons 65 years of age or over. The District comprises only a small fraction of the total gallbladder disease in the United States for lowest population death rates (0.06) from death rate (about 0.2 percent), and there of Columbia and North Dakota had the The death rate for gallbladder disease Rhode Island had the highest, 0.28 and diseases of the gallbladder; Alaska and were only about 3,000 deaths from 0.19, respectively.

Correlations between rates

There was no correlation between the discharge rate and the 30-day post-admission death rate per 1,000 discharges for diseases of the gallbladder. The correlation between the discharge rate per 1,000 enrollees and the population death rate per 1,000 persons was 0.26. This indicates a small positive association between population mortality and hospitalizations for this condition.

Urban-rural patterns

In the Nation as a whole, the discharge rate per 1,000 enrollees for diseases of the gallbladder was substantially higher for rural areas than for the MSAs combined (7.73 versus 5.72). This pattern was true for each of the U.S. census regions.

The 30-day post-admission death rate per 1,000 discharges for the Nation as a whole was lower for rural areas than for the MSAs combined (30.1 versus 32.6). This pattern held for all of the regions.

Nationally, the death rate per 1,000 aged persons was slightly higher for rural areas than for the MSAs combined (0.13 versus 0.11). This was also the pattern for each census region.

Table 1. Diseases of galibladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by age, sex, and race: United States, 1986

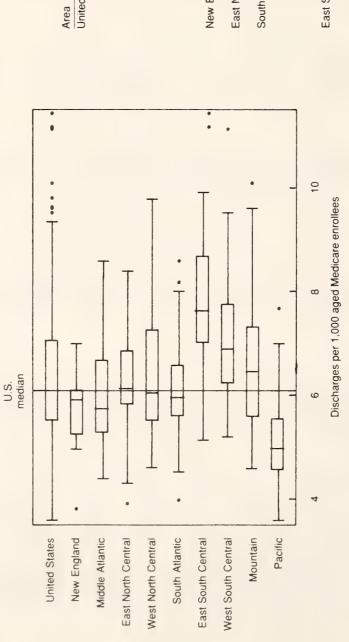
÷	deaths per 1,000	00.011		0.11 0.12 0.12 0.42	0.01 0.04 0.15 0.46	0.13 0.25 6.20 54	0.03 0.03 0.12 0.43	0.10 0.15 0.15	00.00	0.00
ssion deaths	Per 1,000 non-HMO enroilees	0.20 0.10 0.28 0.28	0.22 0.35 0.71	0.18 0.23 533 633	0.20 0.10 0.28 0.62	0.23 0.123 747	0.19 0.08 0.24 0.58	0000	0.16 0.08 0.27 0.41	0.17 0.20 0.42 0.42
30-day post-admi	Per 1,000 discharges	31.7 147.7 189.7 189.5	37.4 23.1 89.7 8.0	28.3 13.2 744.1 14.1	31.5 16.6 39.6 78.7	37.0 22.8 48.3 69.0	28.0 12.4 34.7	41.0 28.1 47.1 74.6	56.0 36.7 69.2 106.2	325.2 6.4.6 6.7.8 8.5.8
o races	Per 1,000 non-HMD enrollees	6.27 5.70 6.97 7.65	5.95 7.31 7.90	6.48 6.09 6.78 7.55	6.46 5.90 7.15 7.87	6.22 5.45 7.61 8.30	6.62 6.25 7.71	. 4 8 8 . 6 . 7 . 6 . 6 . 7 . 6 . 6 . 6 . 6 . 6	3.22.8	4470 6470 8460 8460
Disch	Number	167,468 92,242 55,975 19,251	63,455 36,757 21,307 5,391	104,013 55,485 34,668 13,860	152,452 83,824 51,048 17,580	58,458 33,881 19,589 4,988	93, 49, 91, 31, 593	8,126 4,201 2,826 1,099	2,251 1,173 852 226	1,974 1,974 1,974
enfoliment	As percent of all enrollees	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	96.01 95.90 96.02 97.22	97.16 96.66 97.51 98.74	96.22 96.23 96.83 26	955.99 95.99 1.093	94.07 96.55 97.42	97.86 97.54 98.11	97.49 97.28 97.67 98.74	98.10 97.74 98.37 99.26
Non-HMD e	Number	26,698,924 16,162,594 8,020,447 2,515,883	10,650,991 7,056,445 2,912,366 682,180	16,047,933 9,106,149 5,108,081 1,833,703	23,574,066 14,207,064 7,134,499 2,232,503	9,391,016 6,216,472 2,573,989 600,555	14,183,050 7,990,592 4,560,510 1,631,948	1,991,943 1,213,014 583,429 195,500	792,788 519,305 215,401 58,082	1,199,155 693,709 368,028 137,418
	Age, sex, and race	Aii persons (1) 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over	White E5-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over	81ack 65-74 years 75-84 years 85 years or over	Men 65-74 years 75-84 years 85 years or over	Women 65-74 years 75-84 years 85 years or over

(1)Includes persons of other races in addition to white and black persons.

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data.

SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Figure 1. Diseases of the gallbladder: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by division: United States, 1986



Outliers for	Outliers for discharges per 1,000 enrollees	ollees
Area	Rural or metropolitan statistical area	Rate
United States	Alexandria, LA	9.52
	Rural counties, NM	9.60
	Rural counties, ND	9.78
	Rural counties, TN	9.92
	Rural counties, KY	9.92
	Provo-Orem, UT	10.08
	Laredo, TX	11.12
	Pascagoula, MS	11.19
	Owensboro, KY	11.45
New England	Burlington, VT	3.82
East North Central	Bloomington, IN	3.91
South Atlantic	Washington, DC-MD-VA	3.98
	Parkersburg, WV-OH	8.16
	Rural counties, GA	8.16
	Rural counties, WV	8.58
East South Central	Pascagoula, MS	11.19
	Owensboro, KY	11.45
West South Central	Laredo, TX	11.12
Mountain	Provo-Orem, UT	10.08
Pacific	Merced, CA	7.66
SOURCE: Health Care Management and Strate	SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.	of Data stical System.

Table 2. Diseases of galibladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enrollment	Disch	arges	30-day post-adm	mission deaths	4
		As percent of all		Per 1,000 non-HMD	er 1,00	Per 1,000 non-HMD	deaths per 1,000
Area of residence	Number	rolle	Number	101	discharges		perso
United States Metropolitan Rural	26,698,924 19,363,284 7,335,640	96.70 95.80 99.16	167,468 110,710 56,758	6.27 5.72- 7.73+	31.7 32.6 30.1	0.197 0.185 0.231+	0.12 0.11- 0.13
Northeast Metropolitan Rurai	6,276,897 5,564,648 712,249	98.04 97.84 99.69	35,676 30,554 5,122	5.67- 5.48- 7.19+	333.0 31.3	0.190 0.185 0.229	0.12 0.12 0.14
New England Metropolitan Rural	1,569,313 1,342,886 226,427	999 99.00 99.00 99.00	9,034 7,579 1,455	5.73- 5.62- 6.41	34.7 35.5 30.4	0.205 0.205 0.199	0.13 0.13 0.11
Maine Metropolitan Rural	153,209 82,345 70,864	88.00 68.00 66	044 440 470	6.14 5.38 7.02	34.8 48.1 23.7	0.221 0.261 0.176	0.10
New Hampshire Metropolitan Rural	114,752 74,135 40,617	98.98 98.55 99.77	681 2445 236	5.93	32.7 29.8 37.9	0.191 0.175 0.220	0.17 0.19 0.14
Vermont Metropoiitan Rural	62,781 10,422 52,359	99.82 99.41 99.80	4 0 0 0 0 0 0 0	6.40 3.82- 6.91	29.0 0.0 32.2	0.186 0.000 0.223	0.13 0.00 0.16
Massachusetts Metropolitan Rurai	709,478 659,025 50,453	93.75 93.40 98.58	4,142 3,854 288	5.80- 5.80- 5.71	36.2 36.0 38.7	0.218 0.218 0.217	0.12 0.13 0.08
Rhode Island Metropolitan Rural	132,332 132,332 0	97.59 97.59 0.00	852 852 0	6.42	36.9 9.0 0.0	0.233 0.233 0.000	0.19 0.19 0.00
Connecticut Metropolitan Rural	396,761 384,627 12,134	97.56 97.50 99.66	2,012 1,943 69	5.07- 5.06-	32.3 32.9 14.6	0.172 0.175 0.081	0.12 0.13 0.00
Middle Atlantic Metropolitan Rural	4,707,584 4,221,762 485,822	98.68 98.55 99.76	26,642 22,975 3,667	5.65- 5.44- 7.56+	32.4 32.5 31.6	0.186 0.179- 0.244	0.12 0.11 0.16
New York Metropolitan Rural	2,143,249 1,922,371 220,878	98.98 98.89 99.75	10,878 9,362 1,516	6.88. 8.84.	33.1 33.3 31.6	0.172 0.166- 0.220	0.12
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Table 2 enrolle United

	Non-HMD 6	enroliment	Discha	a roes	30-day post-admissi	nission deaths		
Area of residence	umber	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	Total deaths per 1,000 Persons	
New Jersey Metropolitan Rural	916,155 916,155 0	97.84 97.84 0.00	5,089 5,089 0	5.57- 5.57- 0.00	9.99.0 0.00	0.188 0.188 0.000	0.12 0.12 0.00	
Pennsylvania Metropolitan Rural	1,648,180 1,383,236 264,944	98.75 98.56 99.78	10,675 8,524 2,151	6.18 8.15 154	31.1 31.0	0.204 0.192 0.266	0.12 0.11 0.17	
North Central Metropolitan Rural	6,901,975 4,398,761 2,503,214	96.39 95.22 98.51	45,521 26,454 19,067	6.57+ 6.01- 7.57+	322.8 34.3 30.8	0.213+ 0.203 0.230+	0.12 0.11 0.12	
East North Central Metropolitan Rural	4,745,430 3,453,558 1,291,872	97.76 97.13 99.47	30,623 20,813 9,810	6.45+ 6.03- 7.58+	33.9 34.7	0.216+ 0.206 0.242+	0.11 0.11 0.12	
Ohio Metropolitan Rural	1,263,869 987,528 276,341	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8,258 6,144 2,114	6.55 6.24 7.65+	30.3 32.7 23.3	0.195 0.201 0.171	0.11 0.11 0.08	
Indiana Metropolitan Rural	623,062 399,457 223,605	97.86 97.01 99.41	4,076 2,433 1,643	6.54 6.04 7.34		0.228 0.215 0.251	0.00 0.09 0.14	
Illinois Metropolitan Rural	1,265,011 952,934 312,077	95.90 94.73 99.68	8,327 5,738 2,589	6.57+ 6.02 8.23+	888 84.5 8.5.5	0.228 0.208 0.284+	0.13 0.12 0.15	
Michigan Metropolitan Rural	982,444 744,347 238,097	000 000 000 000 000 000	6,002 4,222 1,780	6.13 5.69- 7.52+	34.3 38.0 35.5	0.220 0.208 0.260	0.10	
Wisconsin Metropolitan Rural	611,044 369,292 241,752	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,960 2,276 1,684	6. 145 4. 15 4. 45 4. 45	33.3 32.2 34.7	0.216 0.198 0.243	0.13 0.13 0.13	
West North Central Metropolitan Rural	2,156,545 945,203 1,211,342	93.50 86.82 97.51	14,898 5,641 9,257	6.84+ 5.92- 7.55+	30.7 23.0 4.0 4.0	0.208 0.194 0.219	0.12 0.13 0.12	
Minnesota Metropolitan Ruraj	397,258 187,915 209,343	77.30 67.07 89.55	2,340 932 1,408	5.81 6.881 6.48	24.0 2.0 2.0 2.0	0.207 0.228 0.189	0.13 0.15 0.10	

See

Table 2. Diseases of gallbladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986 Total deaths per 1,000 0.08-0.07-0.14 0.13 0.06 0.14 0.10 0.15 0.12 0.05 30-day post-admission deaths Per 1,000 non-HMO enrollees 0.207 0.187 0.242+ 0.129 0.040-0.162 0.046-0.185 0.175-0.209 0.216 0.239 0.204 0.191 0.195 0.187 0.247 0.136 0.299 0.223 0.235 0.202 0.168 0.170 0.145 0.218 Per 1,000 discharges 14.9-6.9-16.7-28.4 8.3-31.9 31.0 35.8 28.7 29.0 31.8 25.7 35.6 31.3 36.7 30.3 30.7 29.8 30.6 30.9 29.9 Per 1,000 enrollees 7.12+ 6.60 7.39+ 7.81+ 6.78 8.08+ 6.93+ 6.22 8.20+ 6.70+ 6.29 7.26+ 8.80+ 6.13 9.78+ 6.98+ 4.83-8.04+ 7.15+ 6.01 7.90+ 6.09-5.75-6.94+ 5.27-5.20-5.94 non-HMO 6.19 6.06 6.40 Discharges 62,124 35,715 26,409 28,349 19,001 9,348 909 4,424 2,430 1,994 2.225 748 1.477 2,289 2,043 246 165 165 0 758 142 616 759 139 620 1,484 1,143 431 267 164 Number As percent of all enrollees 99.37 98.24 99.96 98.17 96.99 99.88 99.94 99.49 99.75 98.28 98.14 98.34 99.59 99.92 99.51 98.52 95.86 99.91 95.82 93.24 97.63 97.94 96.87 99.91 96.31 94.94 99.84 Non-HMO enrollment 1,668,855 3,313,125 1,355,730 404,057 136,818 267,239 8,980,101 5,757,016 3,223,085 70,251 44,355 25,896 66,196 66,196 0 655,875 383,255 272,620 85,433 22,964 62,469 96,216 20,427 75,789 70,076 307.796 123.746 184.048 436,606 395,091 41,515 209,910 Number end of table District of Col. Metropolitan Metropolitan South Dakota Metropolitan Metropolitan Metropolitan Rural Metropolitan Metropolitan Metropolitan Metropolitan Area of residence Metropolitan Metropolitan South Atlantic North Dakota Delaware Maryland Missouri Nebraska Rural Rural Rural Rural Rural notes at Rural Kansas

Table 2. Diseases of gallbladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division. State, and metropolitan and rural counties: United States, 1998

	Total deaths per 1,000	person	0.13 0.13 0.13	0.15 0.08 0.18	0.13	0.13 0.14 0.11	0.15	0.10- 0.09- 0.14	0.15 0.15 0.15	0.18+ 0.17 0.18	0.17+ 0.16 0.18	0.12	0.14
	Per 1,000	- 02	0.184 0.182 0.187	0.226 0.168 0.259	0.187 0.170 0.203	0.197 0.197 0.195	0.228 0.225 0.233	0.166- 0.163- 0.193	0.249+ 0.221 0.275+	0.279+ 0.220 0.324+	0.257+ 0.242 0.279	0.223 0.200 0.256	0.228 0.198 0.237
	Per 1,000	scharge	30. 35. 35. 3	228 25.0 25.0 25.0 25.0	34.0 32.7 35.2	30.3	32.6 36.4 9.0	27.8 27.7 29.0	30.4 29.9	31.9 31.7 32.0	32.3 36.1 28.2	29. 28. 30. 5. 5.	26.6 26.5 6.5
	1,000 -HMD	I LOI II	5.91 5.20- 7.10+	8.08+ 7.23 8.58+	5.45- 5.13- 5.78	6.75 6.96 6.49	7.24+ 6.50 8.16+	6 5 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8.27+ 7.11+ 9.45+	8.74+ 7.20+ 9.92+	6.098 9.98+	7.74+ 7.14+ 8.68+	9.78+ 7.48 9.15+
	2000	Number	3,326 1,835 1,491	1,972 655 1,317	3,734 1,771 1,963	2,199 1,286 913	4.047 2.026 2.021	10,186 8,953 1,233	14,292 6,209 8,083	3,699 1,321 2,378	2,386 2,064	3,582 2,007 1,575	2,561 2,066
	0 4 0 4	0 e	99.91 99.87 79.99	98.98 97.39 99.95	8 9 9 9 8 9 9 9 9 9 9 9	9999 999 995 995	999.71 999.54	90.97 90.94 99.17	99.80 49.69 76.00	99.70 99.37 69.99	000 000 000 000 000	►6 6 6 6 6	8 6 8 6 6 6 6 6 7 6 7 6
	Non-HMD e	Number	566,135 355,193 210,942	244,259 90,704 153,555	689,138 346,905 342,233	329,020 186,873 142,147	561,716 313,319 248,397	1,705,534 1,514,489 191,045	1,726,272 873,594 852,678	422,657 183,264 239,393	550,327 342,007 208,320	463,131 281,960 181,171	290,157 66,363 223,794
ited States, 1906		Area of residence	V:rginia Metropolitan Rural	West Virginia Metropolitan Rural	North Carolina Metropolitan Rural	South Carolina Metropolitan Rural	Georgia Metropolitan Rural	Florida Metropolitan Rural	East South Central Metropolitan Rural	Kentucky Metropolitan Rural	Tennessee Metropolitan Rural	Alabama Metropolitan Rural	Mississippi Metropolitan Rural

Table 2. Diseases of gallbladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD e	enroliment	Disch	arges	30-day post-adm	mission deaths	
		As percent of all		er 1,00 non-HMD	Per 1,000	er 1,00 non-HMO	deaths per 1,000
Area of residence	Number	0	Number	- 0	scharg	-0-	erson
West South Central Metropolitan Rural	2,584,974 1,570,297 1,014,677	99.74 99.59 99.97	19,483 10,505 8,978	7.53+ 6.70+ 8.81+	29.8 29.7 30.0	0.221+ 0.196 0.258+	0.11
Arkansas Metropolitan Rural	321,739 100,966 220,773	99.98 99.98 99.95	2,700	8.38+ 7.36+ 8.85+	32.2 37.4 30.2	0.262 0.275 0.256	0.13 0.15 0.12
Louisiana Metropolitan Rural	415,968 268,137 147,831	888 999 999 999	3,202 1,813 1,389	7.69+ 6.77 9.34+	27.8 24.9 31.4	0.200 0.157 0.271	0.12
Oklahoma Metropolitan Rurai	378,716 180,038 198,678	99 98.00 99.96	3,205 1,334 1,871	8.42+ 7.39+ 9.35+	22.5- 20.8- 23.7	0.186 0.147 0.219	0.10
Texas Metropolitan Rural	1,468,551 1,021,156 447,395	99.81 99.73 99.97	10,376 6,614 3,762	7.07+ 6.50 8.37+	32.1 31.8 32.5	0.227 0.206 0.271+	0.11
West Metropolitan Rural	4,539,951 3,642,859 897,092	93.08 91.96	24,147 17,987 6,160	6.34 6.986 1.869 1.469	31.3 52.3 28.3	0.166- 0.158- 0.196	0.10- 6.10- 0.13
Mountain Metropolitan Rural	1,200,638 720,893 479,745	94.36 92.10 97.98	7,815 4,145 3,670	6.56 5.79- 7.71+	28.1 30.0 26.0	0.181 0.170 0.197	0.12 0.10 0.15
Montana Metropolitan Rural	97,248 21,173 76,075	0000	736 123 613	7.60+ 5.84 8.09+	21.6 8.6- 24.0	0.163 0.048- 0.194	0.09
Idaho Metropolitan Rural	109,822 18,471 91,351	99.77 99.90 99.74	742 1114 628	6.80 6.21 6.92	110. 0.010. 0.00.	0.128 0.110 0.131	0.12
Wyoming Metropolitan Rural	42,408 12,265 30,143		321 78 243	7.60 6.40 8.08	37.2 42.2 35.7	0.280 0.250 0.293	0.11
Colorado Metropolitan Rural	266,663 201,737 64,926	94.73 95.23 93.22	1,615	6.06 5.82 6.82	29.0 29.7 27.1	0.178 0.178 0.177	0.13
See notes at end of table							

Table 2. Diseases of gallbladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

As percent Area of residence Number Percent of all all and all all and all all and all all all all all all all all all al		OM H - u o M	enroliment	Disch	arges	30-day post-admi	nission deaths	-
Metropolitan 125.371 92.49 1.001 8.03+ 16.6 Metropolitan 73.512 95.86 7.001 8.03+ 16.5 Rural 10.001 348.748 91.33 2.041 5.92 34.7 Rural 128.748 91.33 2.041 5.92 34.7 Metropolitan 25.260 99.94 65.2 7.34 22.9 Rural 17.414 99.94 86.15 43.4 5.45 41.0 Rural 17.414 91.83 92.41 27.34 28.1 41.0 Rural 17.414 91.83 10.7 5.45 41.0 81.1 Rural 17.414 91.93 86.15 4.90 87.1 87.2 87.3 Metropolitan 461.706 92.41 2.540 6.03 8.04 87.2 87.2 Rural 11.706 92.41 17.06 92.42 17.4 92.2 Rural 12.30.007 96.65	of residenc		percen of all	# ⊞b e	er 1,00 non-HMO	Per 1 scha	Per 1,000 non-HMO enrollees	deaths per 1,000
Metropolitan 348,748 91.33 2,041 5.92 34.0- Rural 25,931 89.31 1,383 5,40- 37. Metropolitan 128,579 99.92 92.5 7.23+ 29.8 Rural 128,385 86.15 434 5.45 441 Rural 17,414 91.83 10.7 5.22 441 Rural 17,413 92.62 16.332 4.90- 32. Metropolitan 2,921,966 91.93 13,842 4.74- 33. Metropolitan 346,977 90.86 1,633 4.90- 33. Rural 114,729 97.42 2.549 6.03 31. Rural 1122,101 98.68 4.74- 23. Rural 122,107 93.36 1,76 6.65- 27. Metropolitan 2,330,007 93.36 10.820 4.65- 34. Rural 10,724 93.36 10.820 4.65- 34.	ew Mexico Metropolita Rurai	125,371 51,612 73,759	4.8.	239	788	6.6 6.6 0.7	0.136 0.039- 0.201	0.18
Metropolitan 128,579 99.92 92.55 7.23+ 28.55 Rural 83,319 99.94 652 7.03 25.55 Rural 81,799 86.15 434 5.45 41.78 Rural 17,414 91.83 107 6.30 31.83 Rural 2,921,966 91.93 16.332 4.74- 33.83 Metropolitan 461,706 92.62 16.332 4.74- 33.84 Metropolitan 461,706 92.41 2.490 6.03 31. Metropolitan 303,778 86.84 1.706 5.62- 29. Rural 122,101 98.65 1.633 5.62- 29. Rural 122,101 98.65 10.83 4.68- 34. Rural 1,27,24 93.76 4.68- 34. Rural 16,348 99.76 4.68- 34. Rural 10,723 99.80 4.66- 4.66- Rural <	rizona Metropolita Rural	348,748 257,931 90,817	e. e.	98	. 40 . 41	4 1 6	0.200 0.194 0.218	0.09
Nevada Rural 81,799 64,385 86.15 84.73 434 327 91.83 5.45 5.22 44.44 Rural 17,414 91.83 16,332 4.90- 6.30 31.34 Metropolitan 2,921,966 417,347 92.62 16,332 13,842 4.90- 6.03 32.41 31.47- 74- 80.86 2,587 13,842 6.62- 6.03 29. 80. 80. 80. 80. 80. 80. 80. 80. 80. 80	tropolita ral	128,579 93,319 35,260	တ္တ	457	.03	45.00	0.197 0.164 0.283	0.14
Aural 3,339,313 92.62 16,332 4.90- 32. Rural 417,347 91.93 13,842 4.74- 33. Washington 461,706 92.41 2,587 5.62- 25. Rural 114,729 92.41 2,587 5.62- 25. Rural 114,729 97.42 1,633 5.29- 25. Rural 181,677 86.84 1,706 5.62- 25. Rural 122,101 98.65 90.4 4.85- 23. Rural 1,706 5.62- 33. Rural 147,241 99.57 4.68- 34. Asska 16,348 99.78 4.65- 34. Rural 15,22 99.79 4.65- 34. Rural 15,625 99.76 4.75- 4.56- Hawaii 80,233 83.64 37.5 4.75- 26. Rural 22,553 84.47 118 5.28- 65.	evada Metropolita Rural	81,799 64,385 17,414	1.7-8	0 2 3	400	-4-	0.209 0.213 0.193	0.07
gton 461,706 92.41 2,587 5.62- 29 opolitan 346,977 90.86 1,633 5.29- 25 popolitan 114,729 97.42 1,706 5.62- 29 popolitan 2,477,248 98.65 80.3 4.95- 33 popolitan 2,477,248 93.71 11,587 4.68- 34 opolitan 2,477,241 99.76 4.65- 34 opolitan 16,348 99.76 77 4.65- 34 opolitan 5,625 99.76 4.69 0. 10,723 99.80 49 4.69 0. 22,553 84.47 118 5.28 65.	acific Metropolita Rural	3,339,313 2,921,966 417,347	9.6	6,33 3,84 2,49	. 74	135	0.159- 0.155- 0.195	0.10-
opolitan 303,778 86.84 1,706 5.62- 29 rnia 2,477,248 93.71 11,587 4.68- 34.5 opolitan 2,477,248 93.71 11,587 4.68- 34.5 opolitan 16,348 99.57 4.68- 34.57 opolitan 5,625 99.75 28 5.27- 10,723 99.80 4.69 6.64 0. 57,680 83.31 257 4.55- 38. 118 5.28 65. 26.	- : c	461,706 346,977 114,729	4.00.4	758	. 62	92.	0.163 0.134- 0.252	0.10
a 2,477,248 93.71 11,587 4.68- 34. 2,330,007 93.36 10,820 4.65- 34. 147,241 99.57 77 4.85 0. 16,348 99.75 28 5.17 0. 10,723 99.80 49 49 4.69 0. 11,5an 57,680 83.31 257 4.55- 38. 11,5an 57,680 83.31 257 4.55- 26. 11,5an 57,680 83.31 257 4.55- 26.	opolita 	303,778 181,677 122,101	ထက်က	~ e æ	95.	9 6 6	0.169 0.174 0.159	0.08-
opolitan 16,348 99.78 77 4.85 0. 1 5,625 99.75 28 5.17 0. 1 10,723 99.80 49 4.69 0. 80,233 83.64 375 4.75- 38. opolitan 57,680 83.31 257 4.54- 26. 1 22,553 84.47 118 5.28 65.	ے: د ع	2,477,248 2,330,007 147,241	L. 62.	1,58 0,82 76	.68	44.4	0.158- 0.157- 0.168	0.09- 0.10- 0.07
80,233 83.64 375 4.75- 38. opolitan 57,680 83.31 257 4.54- 26. 1 22,553 84.47 118 5.28 65.	laska Metropolita Rural	16,348 5,625 10,723	7.78	77 28 49	6.1.0		0000.0	0.28 0.22 0.31
	opolita I	80,233 57,680 22,553	œ. 4 .	P 50 77	. 75 . 54 . 28	0000	0.190 0.127 0.342	0.16 0.11 0.29

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMDs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SQURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (Population).

Table 3. Diseases of galibladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMO	enrollment	Disch	scharges	30-day post-admission	ission deaths	1040
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMO enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000
United States	26,698,924	96.70	167,468	6.27	31.7	0.197	0.12
Northeast	6,276,897	98.04	35,676	5.67-	33.0	0.190	0.12
New England	1,569,313	96.20	9,034	5.73-	34.7	0.205	0.13
	153,209	9.8	944	6.14	34.8	0.221	0.10
Bangor, ME	16,035	9.8	86	0	50.4	0.304	0.12
Lewiston-Auburn, ME	13,464	86.66	69	7.09	60.7	0.289	0.0
Portland, mt	37,846	D	9	4			
NOS KI	114.752	9.	681	6.	32.7	0.191	0.17
AN TOTAL TOTAL	44.397	7.9	272	6.10	27.4	0.155	0.21
Portsmouth, &H	29,738	99.52	173	ω.	33.2	0.204	Τ.
	62,781	8	403			0.186	0.13
Burlington, VT	10,422	99.91	40	3.82-	0	0.000	0.
		c		a	36.2	0 218	*
Massachusetts	109,478	ו פי	7 1 2 4 6		9000	011.0	: -
	429, 794	Ω			27.2	0 0	
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-	20,281	91.00	125	51.0	- u	2000	0.0
e	72,225	\sim	8 C	•	44.0	20.00	7 -
Worcester, MA	71,185	50	423		40.6	0.234	-1
Dan Tarand	132.332	7.5	852	4	36.9	0.233	0.19
Providence, RI	132,332	97.59	852	6.42	36.9	. 23	***
4	206 764		2 012	0.7	32.3	0.172	-
Connecticut	396,701	. 4		. 0	400	134	-
Bridgeport, C.	10000	9 6	100	, C	20 - 00	0.147	
Hartord, CI	101,103		200	•	4 5 5	0.242	
New Haven, CT	102,964	99.31	163	5.00.00 .00.00	35.4	0.222	0.10
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Diseases of gallbladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare Table 3. enrollees United Sta

	OH L-EOR	enrollment	Disch	arges	30-day post-adr	mission deaths	4.
rea of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
Middle Atlantic	4,707,584	98.68	26,642	5.65-	32.4	0.186	0.12
;		0	7	4	ď	17	*
* e e	2,143,249	200.00	567	1 1 6 1	23.0	0.111-	0.11
Dally a	25,12	. 0	0	64	4	.083	0.
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Table 3. Diseases of galibladder: Enroliment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD 6	enroliment	Disch	Sagre	30-day post-admi	ission deaths	4.
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enroilees	deaths per 1,000 persons
North Central	6,901,975	96.39	45,521	6.57+	32.8	0.213+	0.12
East North Central	4,745,430	97.76	30,623	6.45+	33.9	0.216+	0.11
Ohio Akron, OH	1,263,869	99.46 99.90	8,258	5.55	30.3	0.195	0.00
١	51,8	6.0	32	G a		.15	-
Cincinnati, UN-KY-IN	2 'S	y . 6	S V	9	5.	. 22	-
I	21,3	9.7	9	3.	00	.17	۰, -
Dayton, OH	03,00	ກ <i>ດ</i> ກ ດ	30	- 4	· .	1.	
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Lorain-Elyria, OH	7,3	9.8	-	41	ر. ا	. 23	0.0
ManSfield, ON	5,5	oυ α ou π	m a	- 6	٠. ب	0.09	90
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Youngstown, OH	 	6.6	2	Τ.	63	. 19	
Indiana	3,0	7.8	4,076	3	9	. 22	= :
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NATE TANKS	7,5	7.7	• 0	m	· ·	10	0.
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ford,	28,351 24,799	88.88 86.88	167	5.89	33.2 37.3	0.209	0.17
See notes at end of table.							

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(City, IA-NE 15,951 99.96 99 6.13 17.5 0.11	City IA 6.240 99.9		4	6	.30	
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100. IA 19.521 99.96 14/ /.50 55.5 0.54	19.521 99.9		.5	د	.24	

Table 3. Diseases of gallbladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMO enrol	nroliment	Dischi	arges	30-day post-adm	mission deaths	į
		As percent		Per 1,000	er 1,00	Per 1,000 non-HMD	deaths per 1,000
Area of residence	Number	, –	Number	- 0	discharges		perso
	655,875	8.	4.424	7.	6	. 19	
	8,560	6.6	9	0.	ო	. 33	٠.
OM . o : loo!	19,275		134	6.93	15.8	0.103	0.10
Kansas City MO-KS	154,919	5.7	947	0	φ.	. 18	7
St. Loseph MO	13,630	9.9	9	₩.	5	. 27	7
St. Louis, MO-IL	283,167	7.4	1,810	ო	·	. 19	
Springfield, MO	27,676	g. 6	13	0	-	. 24	۳.
	400	c o	758	α	4	. 12	0
North Dakota	νντ. (C	7 . 0) u	. c		-	0
Bismarck, ND	8,160	 	50 P	. r		0.0	7-
NATION OF LAND	14,138	, o	- 67	5.01	0	0.000	0.15
מומום יסושה		•	,				
South Dakota	96.216	9.5		œ	28.4	0.218	0.18
Basis City SD	7.152	9.8	33	4.62	0		0
Sioux Falls, SD	13,275	99.93		6.			7
				•		3	*
Nebraska	209,910	98.52	1,484	+ 00 · 10	9.00	0.247	1.00
Lincoln, NE	20,994	8	2	۰ ۹		11.	: 0
Omaha, NE-IA	57,609	ა ფ	0)	0	, ,	. T	?
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	367 706	T,	00	7		Ŋ	0
	A 965	7.0		'n	0	0	۳.
Tobers KA	18,983	7	106	5.51	32.8	0.194	0.04
Wichita KS	45,844	88.57	263	7.		Ξ.	0
South	8,980,101	97.94	62,124	6.93+	30.3	0.207	0.12
South Atlantic	4,668,855	96.31	28,349	6.09-	30.6	0.185	0.12
Delaware wilminaton DF_N.I-MD	70,251	დ დ დ დ დ დ გ ჯე	4 13 15 15	6.19 33	39.3 40.6	0.223	0.07
)					1
Maryland Baltimore MD	436,606	4.0	2,289	4	3.5	0.168 0.165	,
Cumberland, MD-WV Hagerstown, MD	17,051	999 999 999 899	•	7.76	39.0 51.8	.27	
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	40	7	140	46	on on	14	0
Washington, DC-MD-VA	261,121	30.08	1,036	186.8	42.5	0.164	94
See notes at end of table.							

See notes at end of

Furoilment, short-stay hospital discharges, and post-admission deaths for aged Medicare Tab Car

22 0 000000 00000 000000 000000 00000000		Non-HMD	enrollment	Disch	arges	30-day post-adi	mission deaths	+
VITGINIA VA MINISTRATES VALUE VA MINISTRATE VALU	rea of residenc	u mb e	s percen of all	a ge	er 1,00 non-HWD nrollee	Per 1,00 ischarge	non-HMD nrollee	deaths er 1,00
## West of the early lie, VA 12.020 99.92 61 61 61 61 61 61 61 6	Virginia	13	g.	, 32	6	0	.18	
### 115.172 99.99	harlottesville, V	02	000		0 4	. 4	. 08	7 -
Charles VA	VICTORIA.	. 11	. 6.	0	. o.	2	.33	. 2
The control of the co	orfolk, VA	. 60	9.9	σ.	. 91	ლ	. 250	7
West Virginia 244,259 98.98 1,972 8.08+ 28.5 0.226 Intrieston, War War Herston, War Karneston, War War Herston, War War War Herston, War War War Herston, War	ichmond, Voanoke, VA	63	თ. თ.თ.	49	သမ	, r	158	.
Nationary Nati	act Virgini	44.75	00	. 97	0.	œ	. 22	7
North Carolina 19,886 19,95 164 17.48 18.2 18.2 18.5 1	TAN TOTAL MAN	34.21	0	24	Γ.	7	.18	0.
## ## ## ## ## ## ## ## ## ## ## ## ##	untington, WV-KY-D	0,89	6.6	0	4.	æ	.12	-
North Carolina	arkersburg, WV-OH	9.88	9.9	φ	۳.	5	0.09	7
See Care C	heeling, WV-	2,01	2.5	Ó	4	5	. 27	-
Service, NC. 24,469 99.92 129 5.25 31.4 0.160 0.00 0.11 0.11 0.11 0.11 0.11 0.1	orth Carolina	1.3	6	. 73	. 45	4	. 18	-
Urfington, NC 1955 9999 99 79 5.43 24.9 0.148 0.00 0.148 0.148 0.00 0.148	- Ca	4.45	0	12	. 25	-	. 16	٥.
Abrilotti NC	2 C + C + C + C + C + C + C + C + C + C	50	0	1	4	4	.14	٥.
ayetteviile, NC	harlotte. NC	9,33	9.7	4	.01	4	.17	0
rensboro, NC	ayetteville, N	3,38	9.6	9	. 16	٠ س	. 25	0,
activory, NC	reensboro, N	9,38	9.9	S	Ģ.	6.0	.23	۲.
acksonyille, NC 5,134 99.86 256 5.57 0.0 0.00 0.00 0.00 0.00 0.00 0.00	ickory, NC	3,39	9.9	3	-	2.0	. 13	<u>ې</u> د
South Carolina 329,020 99.86 255 4.52—35.3 0.105 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	acksonville, NC	5,13	9.8	N		0.1	8	7 .
South Carolina 329,020 99.44 2,199 6.75 30.3 0.197 0.1	aleigh-Durham, N	6,48	8	S	. 52	ດ (10	
South Carolina 329,020 99.44 2,199 6.75 30.3 0.197 0.1 125 16.583 99.70 125 7.60 43.2 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.326 0.183 0.197 0.1 135.135 99.98 248 7.09 29.5 0.098 0.00 13.5 0.1 13.5 0.1 13.5 0.22	ilmington, N	2,63	ი ი		٩	, D	11.	7
derson, SC 16,583 99.70 125 7.60 43.2 0.326 0.32 harleston, SC 34,246 98.90 199 248 7.09 23.4 0.192 0.192 olumbia, SC 35,361 99.98 248 7.09 29.5 0.183 0.192 olumbia, SC 11,195 99.96 67 6.05 19.6 0.098 0.0 olumbia, SC 561,716 99.96 67 6.05 19.6 0.098 0.0 deorgia 561,716 99.92 61 6.62 27.5 0.147 0.1 thens, GA 189,539 99.92 1.217 6.62 27.5 0.228 0.1 thens, GA 189,539 99.95 1.217 6.45 38.2 0.229 0.1 thumbus, GA-AL 22,847 99.96 1.26 6.14 54.7 0.095 0.2 acon, GA 25,929 99.97 1.58 6.14 55.7 0.095 <	outh Carolin	29.02	4.0	, 19	. 7	0	.19	Τ.
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Olumbia, SC 35,361 99.98 248 7.09 29.5 0.183 0.1 Iorence, SC 11,195 99.96 67 6.05 19.6 0.098 0.0 Iorence, SC 65,893 99.96 475 7.27 20.4 0.147 0.0 Georgia 561,716 99.71 4,047 7.24+//limits 32.6 0.147 0.147 Lbany, GA 13,510 99.92 105 7.78 31.3 0.229 0.1 thans, GA 13,510 99.96 1,217 6.45 38.2 0.229 0.1 tlanta, GA 22,847 99.96 1,217 6.45 38.2 0.228 0.1 olumbus, GA-AL 22,847 99.96 126 6.14 54.7 0.095 0.095 acon, GA 25,328 99.94 158 6.14 54.7 0.167 0.2 acon, GA 25,338 99.94 158 6.28 0.2 0.2 0.2	harleston, S	4.24	8.9	6	æ	е Э	. 19	7
Octobroce, SC	olumbia. SC	5,36	9.9	4	°.	6	. 18	٦,
Georgia 561,716 99.71 4,047 7.24 32.6 0.228 0.147 0.147 0.147 0.147 0.147 0.147 0.147 0.147 0.144 0.1447	lorence. S	1,19	9.9	9	0	ნ	.09	0
Deorgia S61,716 99.71 4,047 7.24+ 32.6 0.228 0.1 Dany, GA	reenville, S	5,89	8.0	7		0	. 14	7
Georgia 561,716 99.71 4.047 7.24+ 32.5 0.228 0.1 1					•		0	•
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UBUSCA: UR-SC 52,847 99.96 126 5.57 20.5 0.095 0.007	tlanta, GA	200,000	7 0	200	r a	0 4	10	: -
acon, GA 25,929 99.97 158 6.14 54.7 0.332 0.2 avannah, GA 25,338 99.94 158 6.28 25.4 0.167 0.3	ugusta, ca	2,43	א מ	N C	9 14	> <	10	
avannah, GA 25,338 99.94 158 6.28 25.4 0.167 0.3	Olumbus, GA-	Z,84	ה ה ה	A R		. 4	9 60	?
100 100 100 100 100 100 100 100 100 100	800m, CX	20.00	n 0) K	: 0	- LC	1.6	e
	0.000000	0 0		•	4		1	

Table 3. Diseases of gallbladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 persons 0.10-0.22-0.03-0.08-0.08-0.08-0.11-0.11-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.12-0.13-0.18 0.18 0.38 0.17+ 0.25 0.36 0.09 0.11 0.21 0.16 0.15+ 30-day post-admission deaths Per 1,000 non-HMD enrollees 0.166-0.335-0.136 0.136 0.136 0.224 0.121-0.121-0.121-0.179 0.179 0.1668 0.279+ 0.191 0.217 0.697 0.257+ 0.348 0.313 0.095 0.225 0.225 0.277 0.249+ Per 1,000 discharges 27.8 224.7 229.7.4 229.3 229.3 229.3 27.2 27.2 27.2 27.2 32.8 30.4 31.9 29.8 34.8 70.3 Per 1,000 non-HMD enrollees 0.09 8.74+ 6.92 6.53 11.45+ 8.09+ 7.80+ 7.80 7.01 7.01 7.29 8.27+ Discharges 10,186 260 1,006 1,006 57 222 57 867 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,004 1,005 1,005 1,006 3,699 215 702 118 Number 14,292 As percent of all enrollees 990.97 999.68 91.09 999.88 999.89 999.50 999.50 999.50 999.50 999.50 999.60 999.89 999.89 99.70 98.87 99.20 99.80 Non-HMO enroliment 1,705,534 462,906 181,690 101,198 101,198 107,1098 108,702 23,695 80,895 80,895 80,895 80,895 10,364 117,897 117,895 1 550,327 50,061 12,541 10,064 70,970 88,836 422,657 31,008 107,485 10,319 Number 1,726,272 Bradenton, FL
Dayton Beach, FL
Fort Lauderdale, FL
Fort Myers, FL
Fort Witton Beach, FL
Gainesville, FL
Lakeland, ILe, FL
Malbourne, FL
Malmi-Hialeah, FL
Ocala, FL
Ocala, FL
Corland, FL
Panama City, FL Chattanooga, TN-GA Clarksville, TN-KY Jackson, TN Johnson City, TN-VA Knoxville, TN Memphis, TN-AR-MS Tampa, FL West Paim Beach, FL East South Central Kentucky Lexington, KY Louisville, KY-IN Owensboro, KY Area of residence Tennessee

See notes at end of table.

Table 3. Diseases of galibladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

-	deaths per 1,000 persons	0.12 0.16 0.18	0.1.	0.0	<u> </u>	· ·	0 0			0.11	0.13	٠, د		0	0.12	0 +	: 0	. –	°.	-	<u>ب</u> (?	0.10	፣ ር	•	
ission deaths	Per 1,000 non-HMD enrollees	0.223 0.245 0.231	.24	.06	. 16	0.	0.228	. 19	00.	0.221+	0.262	200	23	17	. 20	0.209	0 0	200	. 19	. 13	.162	ი ი	0.186	110	11	21
30-day post-admis	Per 1,000 discharges	29.4 34.6 9.0	000	5.7	-0	.	26.6		0	29.8	5	00 00	0 00	33.0	7	25.0	٠,		6	0	-		NI	- 4	D 14	2 C C C C C C C C C C C C C C C C C C C
rges	Per 1,000 non-HMD enrollees	7.74+		ę. <u>.</u>	.50	4	8.78+	. 4	۲.	7.53+	e.	w. c			. 69	9.52+	- [4	. 7	e. (. 7	4	4.0	, a	7.24
Discha	Number	3,582 104 816	900	 ∞		10	2,561	າຕ	G)	19,483	2,700	œι	157	67	3,202	132	907	100	121	114	749	193			n u	o ro U 11 D ro
enrollment	As percent of all enrollees	76.66 76.66	, o o .	0.0	0.0	ი ი	99.08	ים הסת	8.6	99.74	9.9	6. 6.		000 000 000 000	6.6	96.66			. 0	6.6	9.9	თ თ	0.6	6.6	יות יות	98.13 98.13
Non-HMD e	Number	463,131 13,124	9 69 7	29	337	20	0,15	35,305	8,55	2,584,974	- ~~	\sim	0.0	11,012	415,968	13,819	39,583	13,501	16.436	14,648	118,708	36,822	378,716	8,215	8,221	71,032
	Area of residence	6	. A	A -	, , ,	Tuscaloosa, AL	Mississippi	BILOXI-GUITPOTU, MU	Pascagoula, MS	West South Central	Arkansas	AR	X <	Pine Bluff, AR	Louisiana	lexandria, L	<	Houma-Thibodaux, LA	Tatagava, Ita		8	Shreveport, LA	Oklahoma	Enid, OK		Ukianoma City, UK Tulsa, OK

Table 3. Diseases of gallbladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 persons 0.10-0.08 0.11 Total 30-day post-admission deaths Per 1,000 non-HMO enrollees 0.227 0.0744 0.0744 0.0280 0.0280 0.231 0.231 0.231 0.229 0.029 0.020 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0.029 0. 0.163 0.128 0.280 0.191 0.295 0.181 0.166 Per 1,000 discharges 0.0 19. Per 1,000 non-HMD enrollees 7.60+ 5.32 6.53 5.34-6.56 6.80 Discharges 321 7,815 736 64 59 Number 24,147 As percent of all $\begin{array}{c} \mathbf{0} \\ \mathbf{$ 99.90 99.77 93.08 94.36 99.91 enroliment 1,468 1193,100 1193,1000 1193,1000 120,159 120,159 137,198 137,198 137,198 137,198 137,198 137,198 14,198 107,198 118,532 118,532 14,532 14,532 14,532 14,532 14,532 14,532 14,532 14,532 14,532 14,532 14,523 14,523 Non-HMO 97,248 12,097 9,076 109,822 42,408 5,379 6,886 1,200,638 Number ,539,951 Lubbock TX
Lubbock TX
Mid-and TX
Mid-and TX
San Antonio, TX
Sherman-Denison, TX
Ty-er, TX
Yiter, TX
Waco, TX
Wichita Falls, TX Daryan, TX Corpus Chr:st:, TX Da-las, TX Fort Worth, TX Galvechon, TX Houston, TX K::!een-Temple, TX Area of residence Beaumont, TX Brazoria, TX Brownsville, TX 늘 Idaho Boise City, ID Abilene, TX Amarillo, TX Austin, TX Wyoming Casper, WY Cheyenne, WY Great Fails, Mountain Montana

See notes at end of table.

Table 3. Diseases of gallbladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

ted States, 1986	DMH-nos	enrollment	Discha	ยา ถือ	30-day post-adm	ission deaths	
Area of residence		e -	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	Total deaths per 1,00 persons
	266,663 15,143 24,899 119,624 15,089 11,610	94.73 95.03 95.03 99.71 99.62	1,615 86 113 689 100 100	6.06 5.06 5.06 6.06 6.02 6.23	29.0 10.1 24.0 38.0 9.6 35.2	0.178 0.063 0.126 0.217 0.065 0.084	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
New Mexico Albuquerque, NM Las Cruces, NM Santa Fe, NM	125,371 33,783 9,375 8,454	92.49 99.94 3.66	1,001 171 57 68	8.003 6.16 8.09	16.6- 6.1- 16.6 0.0	0.136 0.030- 0.110 0.000	0.10 0.11 0.11
Arizona Phoenix, AZ Tucson, AZ	348,748 187,381 70,550	91.33 86.74 96.06	2,041 1,026 357	5.92	8884 5.1.54 .1.55	0.200 0.184 0.218	0.11
Utah Provo-Orem, UT Salt Lake City, UT	128,579 16,076 77,243	9 9 9 9 9 9 9 9 9 0 0 4 0 0 4	925 161 491	7.23+ 10.08+ 6.39	28.9 19.0 27.3	0.197 0.191 0.158	0.14 0.25 0.13
Nevada Las Vegas, NV Reno, NV	81,799 45,252 19,133	86.15 82.98 89.17	4 8 8 8 4 8 9 8	5.4 7.45 6.25	41.0 35.8 66.1	0.209 0.180 0.287	0.07
Pacific	3,339,313	92.62	16,332	4.90-	32.8	0.159-	0.10
Washington Bellingham, WA Bremerton, WA Olympia, WA Seattle, WA Spokane, WA Tacoma, WA Vancouver, WA	461,706 13,629 15,439 14,254 12,559 41,237 50,237 22,738	00000000000000000000000000000000000000	2,587 95 95 67 67 225 276 127	8 8 8 8 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	00 4 4 8 8 8 8 0 0 0 0 1 8 8 8 8 8 0 0 0 0 0 0	0.163 0.000 0.261 0.208 0.173 0.186 0.120 0.119	0.10 0.00 0.12 0.01 0.00 0.00 0.00 0.00
Oreson Eugene, OR Medford, OR Portland, OR Salem, OR	303,778 28,947 20,326 99,155 33,249	86.84 88.67 72.79 90.39	1,706 142 100 454 208		24 25.0 27.0 3.0 3.0	0.169 0.173 0.000 0.209 0.170	00000
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Table 3. Diseases of galibladder: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMG 6	Non-HMG enroliment	Discharge	rges	30-day post-adm	post-admission deaths	10+01
		As percent		Per 1,000	Per 1.000	Per 1,000 non-HMD	deaths per 1,000
Area of residence	Number	. 2	Number	enrollees	· -	_	Ľ
	2.477.248	7	11,587	4.68-	34.2	. 15	0.09-
Anabe: m. Santa Ana. CA	167.171	ຕ	831	۰	37.4		80.0
akeratie d	44.969		301		8		0.21
	27.102	0	130		е Э	0.225	0.22
Treation (C	58.425	6	329	-	6		0.16
(a)	677,939	4	3,054		9		-60.0
	13,462	æ	102			•	0.15
4	33,619	98.80	200	5.97	42.2	0.241	0.08
Daktand, CA	188,258	0.	898	•		•	0.07-
Oxnard-Ventura, CA	49,488	7.	264	•		•	60.0
	17,796	٠.	87	•	41.4		90.0
Riverside, CA	203,246	6.	1,013		93.6		- 20.0
Sacremento, CA	120,273	α.	909			•	0.14
	29,131	æ	134	•			0.09
San Diego, CA	205,402	ო,	911		30.2		-90.0
U	163,753	٥.	640				
•	105,258	. 2	434			•	0.12
Santa Barbara, CA	38,021	۲.	155			~	4
	24,640	٠,	92	٠.			0.07
Santa Rosa, CA	44,775	4.	206		- · · ·	0.066-	
_	40,855	.5	182	4.			
S.	35,778		127		17.0	.05	0.12
Visalia, CA	28,811	σ.	196	-		0.275	
ξ.	11,835	e.	28	6.		. 26	
	16.348	7	77		0.0	0.000	0.28
Anchorage, AK	5,625	99.75	28	-		000.0	
 	80,233	83.64	375	4.75-	38.9	0.190	
Honolulu, HI	57,680		257		9	Ψ.	0.11

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01):
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).



Hernia of abdominal cavity

hospital stays. A large proportion of persons In 1986, there were 8.7 million discharges The rate of hospitalization for hernia of the hospitalization) in 1986 was .03, or 1 death for aged Medicare enrollees. Hernia of the from hernia of abdominal cavity per 1,000 admitted to the hospital for this condition hernia is probably an overstatement of the hernia, a procedure included in Volume 2. number of deaths following admission for actual number of deaths due to hernia of abdominal cavity was 5.10 discharges per for every 33,000 persons. Therefore, the abdominal cavity accounted for 136,167 1,000 enrollees during 1986. The 30-day deaths per 1,000 discharges. The 30-day post-admission mortality rate per 1,000 14,000 enrollees. The number of deaths post-admission mortality rate was 14.7 enrollees was .07, or 1 death for every are operated on for repair of inguinal discharges, or nearly 2 percent of all aged persons (without regard to the abdominal cavity.

Age and sex patterns

Men were nearly three times as likely to be admitted for this diagnosis as were women (8.43 and 2.88 discharges per 1,000, respectively). Although the discharge rate was higher for men than for women, once hospitalized, men had a 37-percent lower

NOTE: Hernia of abdominal cavity is ICD-9-CM

mortality rate than women (12.2 and 19.5 deaths per 1,000 discharges).

The discharge rate was highest for persons aged 75–84 (5.80 discharges per 1,000 enrollees); the youngest and oldest age groups had nearly identical discharge rates (4.80 and 4.73 per 1,000 enrollees, respectively). The 30-day post-admission mortality rate per 1,000 discharges increased markedly with age. Compared with persons aged 65–74 years (6.9 deaths per 1,000), persons aged 75–84 years were almost three times more likely to die (18.4 deaths per 1,000) and persons aged 85 years or over were seven times more likely to die (50.8 deaths per 1,000) following an admission for this diagnosis.

Patterns by race

The discharge rate for white enrollees was 5.27 discharges per 1,000 enrollees. The discharge rate among black persons was about one-third lower, 3.56 discharges per 1,000 enrollees. This pattern was consistent across all age and sex groups.

Overall, the 30-day post-admission mortality rate per 1,000 discharges was 55 percent higher among black persons (22.3) than among white persons (14.4). However, differences by race decreased as age increased. At 65-74 years, black persons had mortality rates more than twice as great as rates for white persons (14.3 versus 6.5 per 1,000 discharges); at 75-84 years, black persons had mortality rates 38 percent higher than rates for white persons

(25.2 versus 18.2); and at 85 years or over, there was essentially no difference in the 30-day post-admission mortality rate per 1,000 discharges by race (54.5 versus 51.0).

Variations by geographic area

Tables 2 and 3 contain data on utilization and mortality by geographic area. The tables are broken out by U.S. census region, division, and State. Data on metropolitan and rural areas within each State are shown in Table 2, whereas data at the metropolitan statistical area (MSA) level are shown in

Discharge rates

The East South Central and West South Central Divisions had the highest discharge rates for hernia of the abdominal cavity, 6.07 and 5.94 discharges per 1,000 enrollees, respectively. The Pacific Division had the lowest rate, 2.76 discharges per 1,000 enrollees. Among the States, Wyoming had the highest discharge rate, 7.37 discharges per 1,000 enrollees, and Hawaii had the lowest rate, 1.79 discharges (Table 2).

Post-admission death rates

Thirty-day post-admission mortality rates per 1,000 discharges were highest in the Pacific and Middle Atlantic Divisions, 16.6 and 16.2 deaths per 1,000 discharges. The lowest rate was in the New England Division, 12.3 deaths per 1,000 discharges.

However, in none of the regions was the mortality rate statistically significantly above the U.S. rate. The only States with mortality rates significantly below the U.S. rate were Connecticut, Kentucky, and Arizona.

Population death rates

As noted, few aged persons have hernia of the abdominal cavity as the underlying cause of death. The low rate amounted to about 800 deaths nationwide in 1986. Because of the infrequency of this event, it is not useful to examine regional variations in this death rate.

Correlations between rates

Discharges per 1,000 enrollees and 30-day post-admission deaths per 1,000 discharges had no significant correlations. Discharge rates and population death rates had no significant correlations either.

Urban-rural patterns

In the Nation as a whole, the discharge rate for hernia of the abdominal cavity for persons in rural counties was 14 percent greater than the rate for persons in urban areas (5.59 and 4.91 per 1,000, respectively). Thirty-day post-admission mortality was slightly lower in rural areas (14.0 deaths per 1,000 discharges) than in urban areas (14.9 deaths per 1,000 discharges), although this was not statistically significant.

Table 1. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by age, sex, and race: United States, 1986

Discharges

Non-HMC enrollment

30-day post-admission deaths

		As percent		Per 1,000	er 1.00	Per 1,000	Total deaths per 1.000
Age, sex, and race	Number	-	Number	10	discharges		perso
65-74 years 75-84 years 85 years	26,698,924 16,162,594 8,020,447 2,515,883	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	136,167 77,658 46,591 11,918	0.1.0 0.8.0.4 0.8.0 0.0.0 0.0.0 0.0.0	11 6.00 7.00 7.00 7.00 7.00 7.00	0.00 0.03 0.11 0.24	0.00 0.00 44.00 44.00
5-74 years 5-84 years 5 years or ove	,650,99 ,056,44 ,912,36	0.00.0	9,81	8.43 7.56 10.30 9.37	12.2 6.0 16.5 43.2	0.10 0.05 0.17 0.40	0.03 0.01 0.04 0.18
5-74 years 5-84 years 5-84 years	93	7.1 6.6 7.5 8.7	യ്ഗ്സ്സ്	3 3 2 2 8 8 3 2 2 4 5 6 6 8	19.5 21.8 59.6	0.00 0.02 0.07 0.18	00.00
White 65-74 years 75-84 years 85 years or over	23,574,066 14,207,064 7,134,499 2,232,503	96.23 96.23 96.23 26	124,244 70,747 42,575 10,922	7.4.7.4 5.00.8.	14.4 18.5 51.0	0.08 0.03 0.11 0.25	0.03 0.01 0.04 0.15
Men 55-74 years 75-84 years 85 years or over	9,391,016 6,216,472 2,573,989 600,555	995.98 95.98 97.12	82,159 48,899 27,410 5,850	8.74 7.86 10.64 9.74	4 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.00 0.10 42 42	0000
en 5-74 years 5-84 years 5 years or ov	14,183,050 7,990,592 4,560,510 1,631,948	97.07 96.55 97.42 98.69	42,085 21,848 15,165 5,072	3322	19.1 28.1 59.7	0.06 0.02 0.07	000000000000000000000000000000000000000
Black 65-74 years 75-84 years 85 years or over	1,991,943 1,213,014 583,429 195,500	99977.88 9987.11 98.11	7,094 3,834 2,544 716	0040 0040 0000	25 2 3 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0.08 0.05 0.11 0.20	0.03 0.00 0.05 0.06
Men 65-74 years 75-84 years 85 years or over	792,788 519,305 215,401 58,082	97.28 97.58 97.67 98.74	4,547 2,478 1,664 405	5.73 7.77 6.97	17.6 10.9 21.0 44.4	0.10 0.05 0.16 0.31	0.03
Women 65-74 years 75-84 years 85 years or over	1,199,155 693,709 368,028 137,418	98.10 97.74 98.37 99.26	2,547 1,356 880 311	22.392	30.6 33.0 67.5	0.07 0.04 0.08 0.15	0.03 0.05 0.05
(1) Includes persons of other	races in	addition to white	and black perso	ons.		4	6 6 6

(1) Includes persons of other races in addition to white and black persons.

(1) Includes persons of other races in addition to white and stage renal disease and were not members of health maintenance
organizations (HMOs) are included in Medicare data.

SQURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (Population).

Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare Table 2. enrollees United Sta

nrollees and total deat nited States, 1986	death rate for the	aged population,	by census regi	on and division	on, State, and m 30-day post-adm	metropolitan an mission deaths	0
Area of residence	e de	As per of a			Per 1,000 discharges	Per 1,000 non-HMO enrollees	Total deaths per 1,000 persons
United States Metropolitan Rurai	26,698,924 19,363,284 7,335,640	96.70 95.80 99.16	136,167 94,267 41,880	5.10 4.91-	14.7 14.9 14.9	0.074 0.073 0.076	0.04
Northeast Metropolitan Rural	6,276,897 5,564,648 712,249	98.04 97.84 99.69	32,538 28,656 3,882	5.25 5.23 5.40	15.2	0.079 0.081 0.063	0.03-
New England Metropolitan Rural	1,569,313 1,342,886 226,427	996.20	8,735 7,440 1,295	5.66+	12.3 13.1 8.0-	0.066 0.070 0.043	0.03
Maine Metropolitan Rural	153,209 82,345 70,864	999 99.68 99.88 78.69	961 509 452	6.25+ 6.24+ 6.26+	11.0	0.063 0.070 0.054	0.00
New Hampshire Metropolitan Rural	114,752 74,135 40,617	98.98 98.55 99.77	637 408 229	5.53 5.58 5.55	11 401 24,4 3	0.078 0.106 0.024	0.02
Vermont Metropolitan Rural	62,781 10,422 52,359	99.82 99.91 99.80	383 693 414	6.08 5.45 95	9000	0.006 0.000 0.055	.00.0 .00.0 .00.0
Massachusetts Metropolitan Rural	709,478 659,025 50,453	93.75 93.40 98.58	3,796 3,558 238	5.51 4.58 66.4	411 421 6.24	0.077 0.081 0.019-	4.00
Rhode Island Metropolitan Rural	132,332 132,332 0	97.59 97.59 0.00	687 687 0	5.31 5.31 0.00	16.2 0.2 0.2	0.082	0.00
Connecticut Metropolitan Rural	396,761 384,627 12,134	97.56 97.50 89.69	2,271 2,209 62	5.78+ 5.80+ 5.15	7.7-	0.042- 0.041- 0.080	0.02-
Middle Atlantic Metropolitan Rurai	4,707,584 4,221,762 485,822	86.00 98.00 98.70 98.70	23,803 21,216 2,587	5.11 5.09 5.28	16.2 16.2 13.4	0.084 0.086 0.074	0.03-
New York Metropolitan Rural	2,143,249 1,922,371 220,878	8 9 8 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6	11,749 10,452 1,297	5.54+ 5.51+ 5.82+	14.5 12.8	0.079 0.079 0.074	0.00

Table 2. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enroliment	Disch	scharges	30-day post-admissio	ission deaths	•
		As percent of all		1,0 E.H.	9 5	er 1,00	r a c
Area of residence	Number	- 0	Number	enrollees	scharge	F	
Iowa	404,057	9.3	4	0	8		0
Metropolitan	136,818	98.24		5.82	14.0	0 0	0.0
Rural	267,239	D	0	-:	-	?	?
M: A D = C A : M	655.875	8.1	, 42	.2	9	.08	0.03
Metropol:tan	383,255	96.99	2,056	5.48	13.9	0.077	
Rural	272,620	9.8	,37	ტ.	Oi	60.	•
2 th the transfer of the trans	85.433	8	00	.5	0	٥.	0.
Metropolitan	22,964	98.14	152	6.57	24.9	0.162	0.04
Rusa	62,469	8.3	m	٠ ک		۰.	0
4	310 30	ď	-	α		0.8	0
SOUTH DAKONA	20,210	. 0	- (r)	9	9	.04	0.00
20	75,789	99.51	537	6.84+	14.1	0.093	0.
Mediaska	209,910	8.5	1,368	44	18.2	0.111	0.06
Metropolitan	70,076	95.86	4	₹.	œ ·	.05	0.
Rura	139,834	9.9	2	. 43		.13	0
3	307 706	0	A	0	C	0.0	0
	100 140		9	4	-	90	0.03
20 - C - C - C - C - C - C - C - C - C -	184,048	97.63	1,181	6.33+	12.4	0.	0
				- 1	-		
South	8,980,101	40.70	49,718	5.53+	9.0	0.073	0.03
Metropolitan D::11	5,757,016	D 0	,00	? œ			.03
9	2,443,000	•	-		,		
South Atlantic	4,668,855	6.3	, 76		e .	0.	
Metropolitan	3,313,125	40.04	16,411	- 4 m	1.6	0.00	
Kural	1,355,730	מ מ	9		4		
Delaware	70,251	6.6	4		14.2	0.074	0.07
Metropolitan	44,355	99.95	200	4.58	ö	.04	0
Rural	25,896	6.6	4		o	. 12	0
	436.606	4.0	.08	80	4		0.
Metropolitan	395,091	99.44	1,923	40.4	14.0	0.071	90.0
Rural	41,515	6.6	15	٠.			0
District of Col.	6.19	9.7	00	. 90		.02	0
Metropolitan Rural	66,196	99.75	186 0	2.90-	න ට හ	0.028-	0.02
	•						

Table 2. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMO	enroliment	Discha	arges	30-day post-adm	ission deaths	4
Area of residence	Nember	As percent of all encollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000 persons
Virginia Metropolitan Rural	566,135 355,193 210,942	99.91 99.87 99.97	3,014 1,820 1,194	5.38 5.24 5.62	10.5 12.0 8.1	0.054 0.062 0.043	0.02-
West Virginia Metropolitan Rural	244,259 90,704 153,555	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1,489 563 926	6.09+ 6.28+ 5.98+	10.0	0.057 0.056 0.058	0.03
North Carolina Metropolitan Rural	689,138 346,905 342,233	ო თ დ თ დ თ ი თ თ ი თ თ	3,072 1,540 1,532	4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	13.4 18.2 8.6	0.056 0.076 0.037-	000 400 800 800
South Carolina Metropolitan Rural	329,020 186,873 142,147	000 000 000 400 480	1,946 1,100 846	6.03+ 6.03+ 6.03+	12.3 13.5 10.5	0.072 0.081 0.060	00.00
Georgia Metropolitan Rural	561,716 313,319 248,397	9999.71 99.54	3,394 1,817 1,577	6.18+ 5.99+ 6.42+	155. 155. 155.	0.087 0.084 0.091	00.00
Florida Metropolitan Rural	1,705,534 1,514,489 191,045	90.97 90.04 99.17	8.241 7.262 979	4.72- 4.71- 4.86	14.7	0.069 0.067 0.083	0.02- 0.02- 0.01-
East South Central Metropolitan Rural	1,726,272 873,594 852,678	99.80 99.64 99.97	10,472 5,057 5,415	6.07+ 5.87+ 6.28+	13.5 12.0 14.9	0.079 0.068 0.090	000
Kentucky Metropolitan Rural	422,657 183,264 239,393	0 k	2,292 1,010 1,282	5.41 5.26	 ကတယ ကထတ	0.00	0.03
Tennessee Metropolitan Rural	550,327 342,007 208,320	ა ა ა ა ა ა ი ა ა ი ა ი	3,405 2,010 1,395	6.21+ 5.96+ 6.61+	15.9 17.0	0.095 0.097 0.091	0000
Alabama Metropolitan Rural	463,131 281,960 181,171		2,825 1,621 1,204	6.14+ 5.82+ 6.61+	12.4 6.5- 20.3	0.072 0.036- 0.124	0.00 4.400
Mississippi Metropolitan Runal	290,157 66,363 223,794	@ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1,950 416 1,534	6.27 6.27 6.79+	15.9 17.0 15.7	0.105	0.04

Table 2. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD	enroliment	Discha	arges	30-day post-admi	ission deaths	4
	:	ai-		non-HMD	Per	non-HMD	deaths per 1,000
Area of residence	Z c a D e u	_	Ne moe r	0	SCHAL	0	100.10
West South Central	2,584,974	99.74	15,478	. N. N	13.9	0.079	0.03-
Rural	1,014,677	· თ.	33	0.	4	. 08	۰.
ATKansas	321,739	6	4	9.1		.05	0.02-
Metropolitan Rural	100,966 220,773	96.98 99.95	1,381	6.09 + 00.09	o . 6	0.039	.02
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	415 058	0	7.0	4.8	m	. 08	0.
Metropolitan	268,137	86.66	1,632	6.15+	10.3	0.059	0.01-
Rural	147,831	σ.	90,	.08	20		?
Oktahoma	378,716	0.	,33	.14	4	80.	0.
Metropolitan	180,038	00.86	1,102	6.19+	ក ភ ស ស ស	0.087	0.03
- e	198,0/8	, ,	0 7 1	, ,	,		
Texas	1,468,551	80	4	74	15.0	0.083	0.03
Metropolitan	1,021,156	99.73	5,844	۲.		900	
Rurat	447,395	σ.	9		·	9	
West	4,539,951	0.	, 85	43	15.3	0.056-	0.04
Metropolitan	3,642,859	91.96	11,926	7	2	.055	9
Rural	897,092	ω.	g 0	0 .	i.	5	?
Mountain	1,200,638	ω.	. 52	2	m	.07	0.
Metropolitan	720,893	92.10	3,759	5.17	13.5	0.071	0.03
200	200	•					
Montana	97,248	6.	-	69	16.7	0.112	0.05
Metropolitan Rural	21,1/3 76,075	00.00 10.00	511	6.45+	 n (0)	10	0
() 2. 1. 1.	100 822	7	501	er;	9	.07	0
Metropolitan	18,471	06.66	7.7	4.13	11.5	0.055	0.11
Rural	91,351	. 7	424	4		0.	?
Wyoming	42,408	6.	321	8	2	60.	0.
Metropolitan Rural	12,265	80.00 80.00	91 230	7.36+	10.1 14.3	0.083	000
		•	0	7	4	0.6	C
Colorado Metropolitan Rural	200,003 201,737 64,926	99.5.23	1,093 807 286	4.02-	18.5	0.079	0.03
See notes at end of table							

Table 2. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

42	deaths per 1,000 persons	0.03 0.05 0.01-	0.02-0.04	0.00 4.400.	0.01- 0.00- 0.00	0.00 40.00	0.03 0.02-	0 0 0 0 0 0 0	0.00 40.00	0.14 0.23 0.11	0.00
mission deaths	Per 1,000 non-HMD enrollees	0.071 0.079 0.066	0.048- 0.044 0.061	0.103 0.087 0.141	0.085 0.108 0.000	0.052- 0.052- 0.053	0.051 0.048- 0.061	0.061 0.074 0.041	0.051- 0.051- 0.049	0.070 0.000 0.100	0.038 0.018-
30-day post-adm	Per 1,000 discharges	13.1 17.1 11.0	8.3- 7.6- 10.6		21.1	116 186 186 186	100 100 100 100 100 100 100 100 100 100	17.8 21.4 12.1	15.8 15.7	37.7 0.0 48.0	21.8 9.6 59.9
arges	Per 1,000 non-HMD enrollees	5.17 4.37 5.70	5.74 5.87 5.40	6.83+ 6.43+ 7.86+	3.59- 3.76- 2.99-	2.76- 2.77- 2.65-	2.12- 2.06- 2.30-	2.95. 2.95. 96.1	2.89- 2.90- 2.83-	2.13- 1.22- 2.57-	1.79-1.86-
Discha	Number	668 442 442	2,057 1,534 523	903 611 292	250 550 550 550	9,334 8,167 1,167	997 721 276	9 7 8 11 8 4 4 0	7,228 6,789 439	37	158 116 42
enrollment	As percent of all ensollees	92.49 85.86 97.76	91.33 89.11 98.31	9 9 9 9 9 9 9 9 9 5 4 8	86.15 84.73 91.83	92.62 91.93 97.77	92.41 90.86 97.42	88 89 6.08 6.08 6.08 6.08 6.08 6.08 6.08 6.08	93.71 93.36 99.57	999.78 99.75 99.80	83.64 83.31 84.47
Non-HMD e	Number	125,371 51,612 73,759	348,748 257,931 90,817	128,579 93,319 35,260	81,799 64,385 17,414	3,339,313 2,921,966 417,347	461,706 346,977 114,729	303,778 181,677 122,101	2,477,248 2,330,007 147,241	16,348 5,625 10,723	80,233 57,680 22,553
	Area of residence	New Mexico Metropolitan Rural	Arizona Metropolitan Rural	Utah Metropolitan Rural	Nevada Metropolitan Rural	Pacific Metropolitan Rural	washington Metropoiitan Rural	Oregon Metropolitan Rural	California Metropolitan Rural	Alaska Metropolitan Rural	Hawaii Metropolitan Rural

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMDs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 2. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1985

	Non-HMD	enrollment	Dischi	8 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	30-day post-adm;	ission deaths	+
	1 4 4 E	As percent		Per 1,000 non-HMD	Per 1,000	Per 1,000 non-HMD	deaths per 1,000
Area of residence							
New Jersey Metropolitan	916,155 916,155	97.84 97.84	4,365 4,365	4.81	20.1 20.1	0.100+	80.0 0.0
Rural	0	0.0		•		٥.	Ō.
	1,648,180	8.7	. 68	7	91	80.	0.0
Metropolitan	1,383,236	98.56 99.78	6,399 1,290	4.84	14.0	0.083	0.03
		000	0	5	L¢	Č	C
North Central Metropolity	4.398.761	96.39	23,097	5.33+	15.3	0.080	0.04
Rural	2,503,214	8.5	4,95	. 85	5.	.08	0
Cast North Central	4 745 430	7.7	5,65	. 43	5	. 08	0
Metropolitan	3,453,558	97.13	18,002	5.28+	16.0	0.083	0.04
Rural	1,291,872	9.4	, 65	. 82		.08	0
0:4	1,263,869	4.6	8	. 67	7	.08	
tropolitan		09.66	4,491	4.61-	18.0	0.084	0.03
Rural	276,341	g.	, 35	œ	ė.	80	0
	623.062	7.8	. 65	. 92	4		0.05
Mecropolitan	399,457	97.01	2,346	5.95+	15.6		0.
Rural	223,605	4.0	31	. 85	-	90.	0
8:08:	1,265,011	S. 9	, 14	.71	4	.08	0.
Metropolitan	952,934	94.73	5,206	5.55+	15.6	0.086	0.05
Rural	312,077	9.0	Q)	. 18	, ,	9	?
Richigan	982,444	8.9	90,	7	6	.09	0.
Metropolitan Rural	744,347 238,097	96.06 99.44	3,706 1,375	5.603	18.2 22.9	0.090	* m
3	211 044	0	0	67		90	0
E C C C C C C C C C C C C C C C C C C C		4	2.253	6.13+	on .	0.054	0.05-
Rural	241,752	98.66	99	. 63		. 08	0.
West North Central	2,156,545	3.5	40	. 73	4	. 07	0
Metropolitan Rural	945,203	88.82 97.51	5,095 7,308	5.52+	15.2	0.067	0.0
	010	1	4	C	c	0.6	0
Minnesota Metropolitan Rural	287, 236 187, 915 209, 343	67.07 89.55	1,199	. 4	15.1	0.042	000
See notes at end of table							

Table 3. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

10401	deaths per 1,000	0.04	0.03-	0.03	0.04	000000000000000000000000000000000000000	0.03	000000	0.02	0.00
ssion deaths	Per 1,000 non-HMD enrollees	0.074	0.079	990.0	0.063 0.000 0.143 0.073	0.078 0.066 0.170	0.046	0.077 0.075 0.077 0.142 0.108	0.082	0.042- 0.041 0.038 0.037
30-day post-admission death	Per 1,000 discharges	14.7	15.2	12.3	11.0 0.0 21.0 13.5	14.2	7.6	448996 2	16.2	7.9- 7.6 7.6 1.6
Discharges 3	per 1,000 non-HMD enrollees	5.10	5.25+	5.66+	6.25+ 5.86 7.05	5.57	6.08		5.31	6.37 6.37 6.37 6.37
Disch	Number	136,167	32,538	8,735	961 993 322	637 226 182	383	3, 7 2, 29 3, 29 3, 29 3, 29 3, 4, 3, 3, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	687	2,271 573 906 544 186
enroliment	As percent of all enrollees	96.70	98.04	96.20	99.09.09.09.09.09.09.09.09.09.09.09.09.0	98.98 97.91 99.52	99.82 99.91	93.75 98.67 91.00 92.57 79.42	97.59 97.59	97.56 96.63 99.16 95.31
Non-HMD er	Number	26.698,924	6,276,897	1,569,313	153,209 16,035 13,464 52,846	114,752 44,397 29,738	62,781	709,478 429,478 65,540 20,281 72,225 71,185	132,332	396,761 96,911 157,139 102,964 27,613
	Area of residence	United States	Northeast	New England	Maine Bangor, ME Lewiston-Auburn, ME Portland, ME	New Hampshire Manchester, NH Portsmouth, NH	Vermont Burlington, VT	Massachusetts Boston, MA New Bedford, MA Pittsfield, MA Springfield, MA Worcester, MA	Rhode Island Providence, RI	Connecticut Bridgeport, CT Hartford, CT New Haven, CT New London, CT

Table 3. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD enrol	nrollment	Discha	87 BB	30-day post-admi	ission deaths	4
		ercen a		er 1,00 non-HMO	Per 1,00	non-HMD	ו פו
Area of residence	Number	enrollees	Neaber	5	SCBar	L	6 1 30 1
Middle Atlantic	4,707,584	98.68	23,803	5.11	16.2	0.084	0.03-
Zes York	43,24	8	11,749	5.54+	14.5	0.079	0.04
Albany, NY	115,12	8.7	9	.87	٠,	٦,	<u> </u>
Binghamton, NY	35,57	ص ص	10	<u>٠</u>	• •	? -	9
Buffalo, NY	134,451	ه د م	- 1	٠, ٧	r c	: 0	9
- 2	13,644	, u	70	۳.		0	0
2 4	15,222		9	7	. m	0	0
	007 473	. 0	100	. 2	4	٥.	0.
2	30,841) on on	18	00.		٥.	٥.
Drange County, 24	30,488	8.6	9	٧.	0	٥.	0
⋛	27,864	8.4	9	8		۰.	0.9
	102,542	8.8	9	6.	თ (ې د	٠ د
	75,217	6.6	O 1	7		<u>ء</u> ڊ	, (
Utica-Rome, NY	46,733	6 6		œ.		?	?
3 4 3	916.155	7.8	9	8	0	.10	0.
A+-0-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1-1-0-1	46.406	7.9	26	.67	4	.08	٥,
2	171,246	4.6	6	.2	。	.11	۰.
	64,069	99.25	323	5.17	15.6	0.080	0.03
7	91,009	4.7	~	9.	6	90.	٥.
1 -0c	154,643	9.5	2	۲,	4 1	00.	7 6
Newark, NJ	211,511	4.0	m ·	.47	٠	77.	?
. Z	38,499	7.1	4 1	ۍ <u>ا</u>	, c	200	<u> </u>
Vineland, MJ	16,382	6.1		•	•	9	?
	1.648.180	8.7	7,689	7.	9		
Allentown, PA-NJ	94	9.0	ሞ	٠.7	2	Ξ.	0
	6	9.9	102	6.	9	ς.	0.
Beaver County, PA	7	9.9	173	?		۳.	9
	ŝ	9.9	111	7.	50 (9	9.9
Harrisburg, PA	à	6.6	282	. 92	20 q	? •	9
Johnstown, PA	å	6. 6.	200		+ 4	∹ લ	, c
PA	m o	ى ك ر	N 4	0.4		9	90
ຸຄິ		n 0	7,500			? 0	9
Pittsburgs, TA	ຄິດ	20	• 0	. 0	٠.	9	. 02
	n c	90	1 6 2 2	, α		9	0
	ů	n 0	111	0	6	0	7
6	· c	. 0	· 6	00	4	~	0.
t. PA	16.877		80 52	5.06	0.0	000.0	0
•	48,541	6.6	201	Ξ.		Τ.	٥.
See notes at end of table.							

Table 3. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division. State, and metronolity, and instruction of the contraction of the c

statistical area:	+	deaths per 1,000 persons	0.04	0.04	0.03	00	0,0	0.0	0	<u>.</u> 0	0	0.0	•	0 0	. –:	0.	00	0	0.	7.0		0.03		9 0	0	0.	0.0	? =:	0.	0.08	•	٥.	
metropolitan a	mission deaths	Per 1,000 non-HMO enrollees	0.082+	0.084	083	00	٥٠.	9.0	0	٠. c	. 0	0	- 1	.04	122	00.	.17	.00	.13	50.	. 29	0.060	2	80.	1.5	. 07	80.	14	00.	0.143	88	.11	
n, State, and	30-day post-adr	Per 1,000 discharges	15.2	15.7	17.6	5.		9 4		٠ م		45				0			4	1 m		9	•			 . m	٠ د	٠. د	0	24.8	-0		
on and divisio	arges	Per 1,000 non-HMO enrollees	5.52+	5.43+	3.93-	. 39	-:0	0,4	. 4	9.0	0	0.0	•	ص c	.75	8	4. c	. 0	8	9.	- 00	14.1		۲.	٥٩	. w	w.	4 -	6	5.53 8.4	+ 80	-	
by census regi	Disch	Number	38,055	25,652	5,847	8 4	80	N -	- ∞	10	− m	4		3,659	၇ မ	7	186	7	~	71	18	211	2		~ 0	7	8	- 4	. 9	198	~ ຕ	4	
aged population,	enrollment	As percent of all enrollees	96.39	97.76	99.46 99.90	<u>б</u> .	7.	6	. 0.	œ, c	. r.	6.6		φ, ο		6.6	۲.	7.0	8	6.	. o		Ö	6.	۰.۰	. 0.	6.	ن د	· 6.	96.52	. o	· O.	
death rate for the	Non-HMO	Number	6,901,975	4,745,430	1,263,869	51,89	2,58	03,54	9,57	7,34	3,23 1,93	9,31		90.	7.91	5,64	4,43	1.00	8,40	9.84	3,75	33,170	19,58	5,01	9,00	3.39	8,13	5,99	2,02	36,099	3,54 8,35	4,79	
ole 3. Hernia of abdominollees and total death ited States, 1986		Area of residence	North Central	East North Central	Ohio kron, OH	incinnati.	leveland, OH	ayton, OH	amı, ima,	orain-El	anstield, U teubenville	OWN. OH		Indiana	ioominaton.	Ikhart-Goshen,	vansville, IN-KY	ort wayne, in	silogeneibu	okomo, IN	3 + 3 y 6	N I	erre maute,	Illinois	UTOTA-E.G.	hampaign, IL	hicago, IL	ecate o	ankakee	n ty	eoria, IL ockford	Pring	

Table 3. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1996

	Non-HMO enrolim	nroliment	Discha	2000	30-day post-admi	ission deaths	4
		As percent of all		Per 1,000 non-HMD	1,0	Per 1,000 non-HMD	eaths r 1,0
Area of residence	Number	-	Number		scharge		0
	982,444	6.8	5,081	-		660.0	0.03
Ann Arbor, MT	17.760	-:		9.	0	00.	0
Rattle Creek, MI	16,831	99.89	96	5.74	12.7	.05	0.1
Renton Harbor, MI	21,618	9.8	_	9.	ო	. 28	0,
	448,826	6.4	2,190	6.	6	. 09	0.
Flint, MI	43,084	0.	221	. 2	4	.07	0 '
Grand Rabids, MI	64.091	5.4	321	0	5	. 06	٠,
IN CONTRACT	17.046	9.8	84	6.	4	. 17	7
Kalamazoo. MI	21,512	9.8	103	8	თ	. 09	۰.
IM DUSING	32,460	. 2	153	8	9	. 02	٥.
Muskegon, MI	18,957	8.0	91	8	2	. 05	0.
Saginaw, MI	42,162	6.1	245	Φ.	5	0.	٥.
1	611 044	4	0	er)	-	. 06	0.
W C C C C C C C C C	24 453	. 0		64		.08	0.
TA . 2000 AL	14.	. 0	101	8	8	.05	٥.
CIOCO CIOCO MI	10,01	. 0	107	9		00.	0.
Creer Bay, W.	001.41		126	9		.05	0.
TM "W" - A (()) C	14 201		0 8	7	2	90.	0.
ACCIONIA WI	11 858	. 0	7.1	0		.07	0.
MATION WI	30,776	-	181	5.92	9	0.031	0.03
TAM "HOS-DPM	200	0	1.002	0		.05	٥.
Darries wi	20,553	0		. 43		. 19	٥.
TA - 0 = 1 0 = 1	14.461	6	88	0		00.	0
Warsar, VI	12,945	99.95	16	7		00.	٥.
West North Central	2,156,545	93.50	12,403	5.73+	14.1	0.078	0.04
		1	•	•		3	•
Minnesota	397,258	<u>س</u> ا	2,062	7.	•	500	9
Duluth, MN-WI	29,977	6.7	7 4 7	<u>ب</u>		3 6	9
Minneapolis, MN-WI	141,769	+ 4	1 4 6	9			9
AOCIDENTIAN TAN	12.248	70.92	25	4.29	0.0	000.0	0.05
))		•		•	<
Iowa	404,057	6.0	2,447	0.9		.0.	, c
Cedar Rapids, IA	19,323	y (⊣ 0	4		90	0
Davenport, IA-IL	44,040	א ע קרע	00	· Œ		11	9
Des Holmes IA	11 450		1 40	0		.08	0
Town City IA	6.240	0	36	8	0	00.	0
	15,951	96.66	68	5.61	0.0	000.0	0.00
Waterioo, IA	19,521	5 1	107	•		3	•
See notes at end of table							

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able 3. Hernia of abdominatellees and total death	bdominal cavity: eath rate for the	Enrollment, short- aged population, l	-stay hospital by census regio	discharges, a on and divisio	ind post-admissi in, State, and m	on deaths for a netropolitan sta	tistical area:
	Non-HMO	enroliment	Discha	arges	30-day post-adm	mission deaths	t 2
		As percent		per 1,000	er 1.00	Per 1,000 non-HMD	deaths per 1,000
Area of residence	Number	0	Number	- 0	discharges	5	person
	. 87	8.1	3,429	2	9	.08	0.
Columbia, MO	8,56	6.6	Ω.	œ	5	. 11	٦.
Plin, MO	9,27	9.9	6	0.	œ (.10	0.9
Kansas City, MO-KS	4,91	5.7	880	من ۱	o c	000	? -
St. Joseph, MO	3,63	9.4	- 4	٥, ۷		70	; ⊂
St. Louis, MU-1L Springfield, MO	27,676	40.00	164	5.97	23.2	0.140	0.13
	4.3	0		Ľ	c	90	0
	00,130	95.29	57	6.9	18.3	0.118	00.00
	3 6	9		6	4	. 19	°.
Grand Forks, ND	5,68	6		9		. 16	٥.
South Dakota	21	. 5		ω.			0.05
	7.15	8	S	. 29	0	000.0	٥.
Sioux Falls, SD	13,275	66.66	84	6.36		.07	0
F 3.5 K	91	8.5	9	4	80		90.0
2	66	8	14	.84		0.088	0
Omaha, NE-IA	57,609	95.39	364	6.45+	4.0	. 03	٥.
100 M	307,796	5.8	1.841	6	8	90.	0.
Lawrence, KS	4,965	7.7	m	. 73		. 18	0
. (18,983	97.26	47	3.96	12.0	0.048	0.0
Wichita, KS	45.844		801				•
South	8,980,101	97.94	49,718	5.53+	13.6	0.073	0.03-
South Atlantic	4,668,855	96.31	23,768	5.10	13.5	0.067	0.04
- e- C-	70.251	6	4	6		0.074	0.07
Wilmington, DE-NJ-MD	58,114	99.65	269	4.67	7.7	.03	~
Maryland	9	4.6		æ		.07	0
Baltimore, MD	87	6	.33	٠.		.04	o c
Cumberland, MD-WV Hagerstown, MD	17,051		90°	3.47	58.1	0.200	0.13
) ist	66,196	99.75	186	2.90-	6 i	0.028-	0.05
Washington, DC-MD-VA	261,121	0.6	2	. 15	•	. 035	•
Alder of the Asset of the bill							

Table 3. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD 6	enrollment	Disch	a Tues	30-day post-adm	mission deaths	4
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 4 5	As percent of all	E B B B B B B B B B B B B B B B B B B B	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMG enrollees	deaths per 1,000
2=2100=0					•		
מיביסויא	566,135	9.9	3,014	5.38	10.5	0.054	0.02-
Charlottesville, VA	12,020	9.9	7.1	6.	9	Ġ	<u>٠</u>
Danville, VA	15,532	9.9	833	4	ທີ່	?	? (
Lynchburg, VA	18,110	9.9	9	8	· .	٠,	9 (
ď	102,601	9.9	4	т. С	H	۰.	. 03
AV Change	85,698	9.9	4	. 5	_	0	٥.
Roanoke, VA	30,622	96.98	144	ω.	9	٥.	٥.
				•	<		<
West Virginia	244,259	98.98	1,489	+60.9	10.0	0.037	50.0
Charleston, WV	34,215	6 6	0	0	o (00.	9.9
Huntington, WV-KY-OH	40,891	6.6	N.	3	D (. 0	<u> </u>
Parkersburg, WV-OH	19,888	9.9	4	. 2	ż	. O	<u> ۱</u>
Wheeling, WV-OH	22,016	2.5	-	. 2		, 0	2
	120	a	0.7	15	65	. 05	0
	24 460	. 0	12	0	7	.07	0
ASSERVITE ST. 200	14,103	, 0	14	7	_	.07	-
	14,000		478	. 4	_	0.4	0
Charlotte, NC	00000	- C	- 4	. (1		117	0
Fayetteville, MC	10,000	h c	۲ ح	9 46		0.8	0
Greensboro, NC	786,000	א א א	0 0 -			0.4	
HICKOLY, NC	20,032	h (1)	4 -			22	0
ACKSONVILLE, NC	10,104	0 a	4 LC	٠ نو		0	0
	10,464	20.00	6.6	5.24	21.1	0.087	0.08
E	100						
South Carolina	329.020	9.4	4	0.			0.04
SC	16,583	9.7	10	3	9	90.	0
Charleston SC	34.246	9	0	Ξ.	5	.03	0
٠.	35,361	6.6	194	9.	-	. 12	0.
CC. arearch	11,195	6.6	-	er,	4	.09	0.
	65,893	98.01	370	5.76	14.7	.08	0.
6.00	561 716	7	40 C.	7	5	. 08	0.
_	0 0 0 0	. 6	9	2		.11	0.
Athens GA	13.510	6	0	3	6	.15	۲.
At-10-00	189.539	2	0	0	9	.08	0.
Accests GA-SC	32,938	6	15	6.	2	90.	0.
,	22.847	6.6	2	4	7	.09	0.
-	25,929	76.66	165	6.64	-	0.041	0.04
62	25,338	ි ග	4	œ.		00.	٥.
See notes at end of table.							

D E E D

	Non-HMD	enrollment	Discha	arges	30-day post-adm	mission deaths	ر د
Area of residence	Number	As percent of all enrollees	Nember	Per 1,000 non-HMO enroliees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000 persons
Florida	1,705,534	6.0	8,241	7.	4.1		0.02-
	42,906	89.00 00.00	171	8. 4 9. 86 1. 07.	17.1	0.062	0.02
Daytona Beach, FL Fort Lauderdale, FL	181,839	1.0	811	. 4		.08	0
	61,428	9.6	301	91	8	. 05	0,0
FL	41,198	9.2	205	٠.	0	50	9 0
FT. Walton Beach, FL	10,169	ວ ຜູ້ແ	4-00 4-10	70	o	90	90
	80.895	2	448	9.		.12	°.
	55,495	9.5	275	æ	Ö	00.	0
Melbourne, FL	46,501	9.7	183	ω.	ک	.02	0.
Miami-Hialeah, FL	168,502	9.5	876	. 2		ŝ	<u>ء</u> (
Naples, FL	23,433	9.7	100	<u>ق</u>	m (. 14	9 6
Ocala, FL	31,367	ر د	143	w I		50	<u> ر</u>
Orlando, FL	90,604	8.5	521	•	ດ ດ	200	9.0
Panama City, FL	11,817	7.0	0 7	. ,	n ⊲	200	90
Pensacola, FL	29,972	ر د رو	274	٠, ٣		0.0	0
Tallaboud, TL	17 414		4 4		0	00	0
די "ישרו" בישר	222 051		- 40	- 00		.07	.02
West Palm Beach, FL	139,729	5.2	9		S.	. 02	٥.
East South Central	1,726,272	99.80	10,472	6.07+	13.5	0.079	0.04
	000	1	C	*		40	C
. Kenterky	422,057	- 0	151	. 0		063	0
- ×	00,10	0 0	20	. 0	٠.	03	0
Denson KY	10,319	96.66	2 20	 	18.2	660.0	10
			•		u	0	0
i	550,327			7 <	n c	. 4	9
Chattanooga, TN-GA	50,061		ן ת	<u>ء</u>	•	01.	9
-	17,541	ם מ		י ע		00	0
CACAGOS TOTAL TRACE	10,004	10) (1)	•		.05	0
X	70.970	0	0		8	.13	٥.
Membhis, TN-AR-MS	88,836	98.06	489	5.58	14.7	0.077	0.10
ashville, TN	92,994	9.9	00	ю.	S.	00.	0

See

Table 3. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 deaths per 1,000 persons 0.03-0.02-0.04 0.11 0.08 0.00 00000 0.000 30-day post-admission deaths Per 1,000 non-HMD enrollees 0.105 0.294 0.054 0.000 0.051 0.000 0.046 0.039 0.084 0.082 0.0692 0.0693 0.000 0.000 0.005 0.005 0.000 0.000 0.098 0.098 0.079 Per 1,000 discharges 13.9 15.9 40.2 9.7 90.00 113.5 113.8 14.3 10.0 10.0 10.0 10.0 14.2 0.0 116.6 Per 1,000 non-HMO enrollees 65.25.25 44.00 60.00 .64 5.94+ 484 684 115 115 115 116 116 116 6.14 6.95 6.49 6.49 7.98 . 18 6.0 9 24 94 94 94 94 94 94 Discharges 2,82 608 888 74 74 74 170 170 1,950 121 216 47 5,478 1,943 69 113 274 63 . 700 92 242 80 80 101 100 676 676 ,338 57 46 568 419 Number As percent enrollees 99.98 99.99 99.99 99.02 99.94 99.99 97.45 99.74 of all enroliment Non-HMD 415,968 13,819 39,583 113,501 14,620 16,436 118,708 36,32 321,739 11,803 21,413 50,966 11,012 378,716 8,215 8,221 88,646 71,032 290,157 18,079 35,305 8,556 Number 2,584,974 Alexandria, LA Baton Rouge, LA Houma-Thibodaux, LA West South Centra Fayetteville, ARFort Smith, AR-OK Little Rock, AR Pine Bluff, AR Lafayette, LA Lake Charies, LA Monroe, LA New Orieans, LA Shreveport, LA Oklahoma City, OK Tulsa, OK Biloxi-Gulfport, Jackson, MS Area of residence Anniston, AL Birmingham, AL Dothan, AL Florence, AL Gadsden, AL Huntsville, AL Mobitsomery, AL Tuscaloosa, AL Pascagoula, MS Mississippi Louisiana Arkansas Oklahoma Lawton, OK Alabama Enid, OK

Table 3. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

A percent		Non-HMD	enrollment	Disch	arges	30-day post-adr	mission deaths	4
Table Tabl			1		-		00 1 00	- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
Table Tabl			of all		non-HMO	Per 1,00	non-HMD	er 1,
TX	residenc	u mb e	nrollee	u mb e	nrollee	ischarge	arollee.	erson
TX	6	468.55	8	49	7.	5	.08	
TX	×	13.10	6.6	9	6,	4.	.07	
TX	X T	.06	9.9	0	9.	è.	. 21	
TYX 12,323 12,323 13,323 14,325 15,32	XI	. 57	9.9	9	₹.	-	.06	
TX	-	32	6.6	7	٣.	8	.04	
isti. TX	-	48	9.7	8	4.	e.	.08	
Second	- 4	1 6	8	0	0	0	00.	
1.	•	9 6	0	4	8	Ξ.	.13	
17 17 17 17 17 17 17 17	4	, 4		0	1	-	.07	
TX	- 00	70,11		*	4		.08	
TX		11,21	n d	4 0	. 4		0.	
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X	- :	4.1	n (→ 0				
TX		19,37	ر و و	13	9	+ c		
TX	×	87,99	20	0	٠,	;	9 6	
TX	mpie, T	. 18	g.	50	ů.		5 .	•
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X	\vdash	. 54	9.9	-	9.	es.	. 18	•
X	×	.95	6.6	4	4.	æ	. 21	
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9,207 9,207 9,207 9,207 9,207 9,208 51 4,52 0,000 0,000 0,000 1,15,17x 107,989 99,28 604 5,57 6,7 6,7 6,7 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 134 0,000 0,011 0,000 0,00		.36	9.9	2	0	7.2	. 29	
TX		20	9.9	36	æ	0	8	
TX	-	21	6.6	51	ı,		8	
TX		07.98	9.2	0	.5	ě.	.03	
TX-AR 15,315 99.99 184 5.47 24.2 0.125 0.125	T	14.53	6	6	2	2	. 13	
TX	TX		0	4.00	4	4	.12	
TX		5	0	-	Ξ.	6	.11	
11.5, TX	۲	12	0	(0)	'n	0	00.	
HIS, TX TX T4,462 99.97 63 5.81 0.0 0.000 0.000 4,539,951 93.08 15,856 3.43- 15.3 0.056- 0.056- MT 1,200,638 94.36 6,522 5.29 13.3 0.071 0.056- S, MT 12,097 99.88 94.36 674 6.69+ 16.7 0.112 0.0 S, MT 109,822 99.91 70 7.56 43.7 0.0332 0.0 M, TD 109,822 99.91 77 4.13 11.5 0.073 0.0 WY 6,886 99.91 44 8.19 22.1 0.093 0.000 WY 6,886 99.91 47 6.76 0.00 0.000 0.000	-	6	0	(6)	S	æ	. 24	
MT 15,856 3.43- 15.3 0.056- 0.056- S, MT 12,00,638 94.36 6,522 5.29 13.3 0.071 0.0 S, MT 12,097 99.98 674 6.69+ 16.7 0.112 0.0 S, MT 12,097 99.91 70 7.56 43.7 0.000 0.000 J, LD 109,822 99.77 501 4.37 16.0 0.073 0.0 J, LD 18,471 99.90 77 4.13 11.5 0.055 0.0 WY 6,886 99.91 47 6.76 0.00 0.000 0.000	is,	46	6.6	8	ω.		00.	•
1,200,638 94.36 6,522 5.29 13.3 0.071 0.0 a		539,95	3.0	5,85	4	5	.05	
### 12,097 99.90 674 6.69+ 16.7 0.112 0.00 0.00 0.00 0.00 0.00 0.00 0.0	• •	2000	4	L.	C	60	.07	
##T 12,097 99.90 674 6.69+ 16.7 0.112 0.00 12,097 99.88 93.91 7.58 0.0 0.000 0.000 109,822 99.77 501 4.37 16.0 0.073 ty, ID 42,408 99.91 321 7.37+ 12.9 0.093 ##Y 6,886 99.96 47 6.76 0.000 0.000 0.000	-	, , , ,		3				
HIS, MT 12,097 99.88 93 7.58 0.0 0.000 0.00 0.00 0.00 0.00 0.00 0	_	7	6.6	~	9.	9	.11	0
ty, ID 109,822 99.77 501 4.37 16.0 0.073 0.00	800	2	8.6	80	5		80.	0
ty, ID 109,822 99.77 501 4.37 16.0 0.073 0.0 18,471 99.90 77 4.13 11.5 0.055 0.1 0.1 0.1 0.1 0.1 0.1	Falls,	6	9.9	20	. 5	8	. 33	0
ty, ID 109,822 99.77 501 4.37 16.0 0.073 0.00 18,471 99.90 77 4.13 11.5 0.055 0.1					1		1	•
Ty, ID 18,471 99.90 77 7.37 12.9 0.093 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0	09,82	9.7	10	٠. د	•	.0.	۰
9 42,408 99.91 321 7.37+ 12.9 0.093 0.0 WY 5,379 99.91 44 8.19 22.1 0.191 0.0 , WY 6,886 99.96 47 6.76 0.0 0.000	City,	4,8	7) 7)	=	₹.	-		•
WY 5,379 99.91 44 8.19 22.1 0.191 0.0 WY 6,886 99.96 47 6.76 0.0 0.000 0.0	oming .	2,40	9.9	S	e	8	60.	0.0
	¥	,37	თ. თ.	44 4		, o	500	? 0
		9	n	F	•	•	•	

Table 3. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986 Total deaths per 1,000 0.02-0.02 0.01-0.03 0.05 0.11 0.00 0.00 0.00 0.04 0.05 0.00 0.03 0.05 30-day post-admission deaths Per 1,000 non-HMD enrollees 0.048-0.039-0.058 0.062 0.000 0.000 0.075 0.194 0.334 0.071 0.061 0.110 0.119 0.103 0.128 0.079 0.085 0.105 0.115 0.051 0.000 0.000 0.175 0.069 0.069 0.000 0.061 0.139 0.050 0.056 0.085 0.052 Per 1,000 discharges 8.3-9.8 14.9 0.0 16.2 69.7 0.0 13.1 17.1 16.0 18.3 15.7 14.4 14.0 21.1 24.2 27.4 16.6 19.9 0.00 259.1 29.8 29.8 29.8 29.8 17.8 37.7 16.5 17.6 20.5 Per 1,000 non-HMD enrollees 2.68-4.41-4.17-3.39 5.17 3.33-6.11 6.38 5.74+ 6.01+ 5.50 6.83+ 8.71+ 5.95 3.59-3.74-3.80 2.12-2.04-2.04-2.04-1.98-2.10-2.17-2.00-2.95-2.67-3.00-3.49-2.76-Discharges 1,093 109 109 52 64 64 2,057 1,138 396 668 111 60 55 903 145 466 305 175 75 9,334 997 20 32 32 316 316 37 47 914 79 47 290 118 Number As percent of all enrollees 94.73 95.96 95.03 94.10 999.71 86.15 82.98 89.17 992.41 996.59 996.59 997.51 997.24 997.24 86.84 88.67 99.78 72.79 92.49 81.01 99.94 93.66 91.33 86.74 96.06 99.92 92.62 enrollment OW H- HON 461,706 13,629 15,439 14,254 159,859 41,237 50,245 17,048 22,738 125,371 33,783 9,375 8,454 81,799 45,252 19,133 266,663 15,143 24,899 119,624 15,089 11,610 348,748 187,381 70,550 128,579 16,076 77,243 303,778 28,947 20,326 99,155 33,249 ,339,313 Number Colorado
Boulder-Longmont, Colorado Springs, O
Denver, CO
Fort Collins, CO
Greeley, CO
Pueblo, CO L Albuquerque, NM Las Cruces, NM Santa Fe, NM Area of residence Washington
Bellingham, WA
Bremerton, WA
Clympia, WA
Richland, WA
Seattle, WA
Spokane, WA
Tacoma, WA
Vancouver, WA Provo-Orem, UT Sait Lake City Nevada Las Vegas, NV Reno, NV Oregon Eugene, OR Medford, OR Portland, OR Salem, OR New Mexico Arizona Phoenix, AZ Tucson, AZ Pacific Utah

ee notes at end of table.

Table 3. Hernia of abdominal cavity: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

n	deaths per 1,000 persons	0.00	4000	# 8 6 0 # 80 0 0	0.00	0.06	0.03	000	0.00	0.00	0.10	0.02	00.00	0.14	0.03
nission dearn	Per 1,000 non-HMD enrollees	0.051-0.046	0.037	0.052 0.077 0.090	0.063	0.061	0.051	0.038-		0.050			0.034	0.070	0.038
30-day post-admission	Per 1,000 discharges			14.7 27.7 24.3										37.7	21.8 9.6
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Per 1,000 non-HMD enrollees	2.89- 3.30- 3.68-											2.76-	2.13-	1.79-
Discharge	Number	7,228 540 172		2,121 35 104	502	1 N 0 4 0	2882	20.00	431 268	126	101	82	55 83 53 83	37	158
enrollment	As percent of all enrollees	93.71 89.39 99.76	0.6	4.00.0	0,1	. ^ 0	, 60.	D W.	o ri	.,	- 45 L	ດທ	ο. κ.	99.78 99.75	83.64
Non-HMO enrollme	Rumber	2,477,248 167,171 44,969	27,102	677,939 13,462 23,619	188,258	17,796	120,273	29,131	163,753 105.258	38,021	44,775	35,778	28,811	16,348 5,625	80,233
	Area of residence	California Anaheim-Santa Ana, CA Bakersfield, CA	_	Los Angeles, CA Merced, CA Modesto CA	Dakland, CA	Redding, CA	Kiverside, CA Sacremento, CA	Salinas, CA San Diego, CA	San Francisco, CA	Santa Barbara, CA	Santa Rosa, CA	Stockton, CA Vallejo, CA	Visalia, CA Yuba City, CA	Alaska Anchorage, AK	Hawaii Honoiniu, HT

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Fracture of the neck of femur

In 1986, there were 187,739 hospitalizations for fracture of the neck of the femur (hip fracture) among the Medicare elderly. This represented 7.03 hospitalizations per 1,000 enrollees. Post-admission mortality was relatively high for persons with this condition, with 63.5 deaths per 1,000 discharges within 30 days of hospital admission.

The rate of deaths per 1,000 persons (the last column in Tables 1-3) is not applicable for this condition because fractures are not coded as an underlying cause of death.

Age and sex patterns

The discharge rate for women was more than 2½ times that for men (9.28 discharges per 1,000 women versus 3.62 per 1,000 men), reflecting the fact that osteoporosis, a common underlying cause of hip fracture, is much more common among women than among men. The hospitalization rate for hip fracture increased sharply with age, with 2.47 discharges per 1,000 enrollees aged 65–74 versus 26.22 per 1,000 enrollees aged 85 or over, reflecting the increased prevalence of osteoporosis at advanced ages.

Thirty-day post-admission deaths per 1,000 discharges increased substantially with age for both men and women. Among men, mortality increased from 59.7 deaths per 1,000 discharges in the age group 65-74 to

NOTE: Fracture of the neck of femur is ICD-9-CM

157.4 deaths per 1,000 discharges for those 85 years or over. Post-admission mortality per 1,000 discharges was approximately twice as high for men as for women in all age groups, with the rate for women rising from 27.9 deaths per 1,000 discharges in the age group 65–74 to 75.3 deaths per 1,000 for those 85 years or over.

Patterns by race

Hospitalization for fracture of the neck of the femur was much more common among white persons than among black persons in all age and sex groups. There were 7.44 discharges per 1,000 white enrollees and 3.07 discharges per 1,000 black enrollees. These differences reflect the fact that osteoporosis is more common among white than black persons.

Thirty-day post-admission mortality rates per 1,000 discharges were slightly higher among white persons than among black persons for most age and sex groups. The exception was women aged 65–74 (27.9 deaths per 1,000 discharges for white women and 32.4 deaths per 1,000 discharges for black women).

Variations by geographic area

Tables 2 and 3 contain data on utilization and mortality by geographic area. The tables are broken out by U.S. census region, division, and State. Data on metropolitan and rural areas within each State are shown in Table 2, whereas data at the metropolitan

statistical area (MSA) level are shown in Table 3. Figures 1 and 2 were derived from the data in the tables.

Discharge rates

The variation in discharge rates across the the District of Columbia may result, in part, section of the Nation. The highest discharge shown in Figure 2, the census divisions with East South Central and West South Central. with the lowest discharge rates tended to be (4.33 discharges per 1,000). The low rate in the highest median discharge rates were the discharges per 1,000 enrollees. The States States with the highest hospital discharge from incomplete claims reporting. It may The division with the lowest median rate United States is shown in Figure 1. The discharge rates than white enrollees. As rates tended to be in the Southwestern on the east coast, with the lowest rate occurring in the District of Columbia also reflect the large number of black rate was recorded in Tennessee, 8.36 Medicare enrollees, who have lower was the Middle Atlantic.

Nationwide, the variation in discharge rates among MSAs was not great. The coefficient of variation for discharges per 1,000 enrollees was only 0.13, the lowest of any of the diagnostic categories (along with all cancers). This probably results from the emergency nature of this condition and the lack of discretion regarding the decision to

Correlations between rates

The correlation coefficient between discharge rates and 30-day mortality per 1,000 discharges was not significant (r = 0.09). The correlation between discharge rates and population death rates could not be calculated because fracture of the neck of the femur is never coded as an underlying cause of death.

Urban-rural patterns

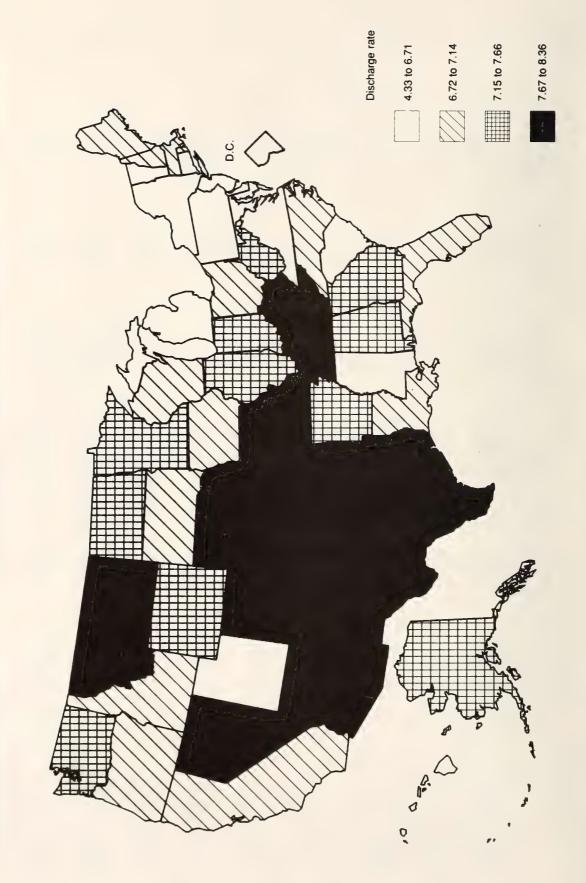
Nationwide, the discharge rate was slightly higher in rural areas (7.18 discharges per 1,000 enrollees) than in urban areas (6.98 per 1,000). This pattern held true in the Northeast and North Central Regions. Urban discharge rates were slightly higher than rural rates in the West, however, and urban and rural rates were identical in the South. Thirty-day post-admission death rates per 1,000 discharges were slightly higher in rural than in urban areas nationwide and in three of the four census regions.

Table 1. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by age, sex, and race: United States, 1986

	Non-HMD	enroliment	Discha	9961	30-day post-admi	ission deaths	4
Age, sex, and race	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000
Ali per 65-7 75-8 85 y	26,698,924 16,162,594 8,020,447 er 2,515,883	96.70 96.33 96.96	187,739 40,000 81,765 65,974	7.03 2.47 10.19 26.22	00000 0000 0000 0000 0000	0.45 0.09 0.57 2.34	
Men 65-74 years 75-84 years 85 years or ov	10,650,991 7,056,445 2,912,366 er 682,180	96.01 95.90 96.02 97.22	38,659 10,211 17,092 11,356	1.0.44 1.0.44 1.0.44 1.0.44	108.4 59.7 104.9 157.4	0.39 0.09 2.62	1111
Women 65-74 years 75-84 years 85 years or ov	16,047,933 9,106,149 5,108,081 er 1,833,703	97.16 96.66 97.51 98.74	149,080 29,789 64,673 54,618	9.28 3.27 12.66 29.78	51.9 27.9 43.2 75.3	0.09 0.55 2.24	1111
White 65-74 years 75-84 years 85 years or ov	23,574,066 14,207,064 7,134,499 er 2,232,503	96.62 96.23 96.88 98.26	175,562 36,988 76,703 61,871	7.44 2.60 10.75 27.71	64.1 36.5 96.5 90.3	0.48 0.10 0.60 2.50	1111
Men 65-74 years 75-84 years 85 years or ov	9,391,016 6,216,472 2,573,989 er 600,555	955, 94 955, 83 97, 12	35,682 9,298 15,786 10,598	3.79 1.49 6.13	110.5 62.3 105.7 159.8	2000. 200.0 200.0 200.0	1111
Women 65-74 years 75-84 years 85 years or ov	14,183,050 7,990,592 4,560,510 er 1,631,948	97.07 96.55 97.42 98.69	139,880 27,690 60,917 51,273	9.86 3.46 13.35 31.41	52.2 27.9 43.4 75.9	0.52 0.10 0.58 2.38	1111
Biack 65-74 years 75-84 years 85 years or ov	1,991,943 1,213,014 583,429 er 195,500	97.86 97.54 98.11 99.11	6,131 1,468 2,478 2,185	3.07 1.21 4.24 11.17	58.7 32.0 55.3 80.5	0.18 0.04 0.23 0.90	1111
Men 65-74 years 75-84 years 85 years or ov	792,788 519,305 215,401 er 58,082	97.49 97.28 97.67 98.74	1,706 712 452	2.15 1.04 3.30 7.78	89.7 31.4 99.7 143.8	0.19 0.03 0.33 1.12	1111
Women 65-74 years 75-84 years 85 years or ov	1,199,155 693,709 368,028 er 137,418	98.10 97.74 98.37 99.26	4,425 926 1,766 1,733	3.69 1.33 4.79 12.61	46.8 32.4 37.4 64.1	0.17 0.04 0.18 0.81	1111
)Includes persons o	of other races in	addition to white	and black person	.8.			

(1)Includes persons of other races in addition to white and black persons.
NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMDs) are included in Medicare data.
SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Figure 1. Fracture of the neck of femur: Short-stay hospital discharges per 1,000 aged Medicare enrollees, by State: 1986



NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations are included. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

Figure 2. Fracture of the neck of femur: Short-stay hospital discharges per 1,000 aged Medicare enrollees for rural and metropolitan statistical areas, by division: United States, 1986

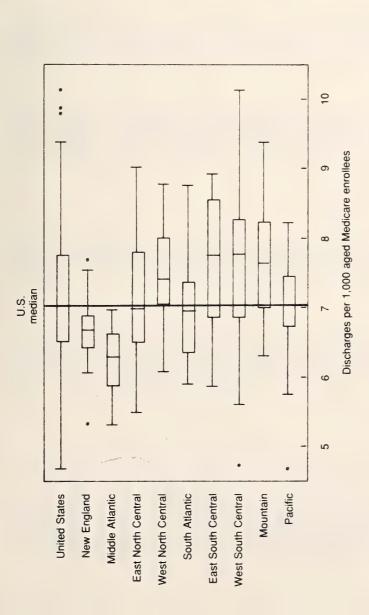


Table 2. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMO	enrollment	Disch	arges	30-day post-adm	mission deaths	+
of residence	Number	As percent of all enrollees	Neaber	Per 1,000 non-HMO enfollees	Per 1,000 discharges	Per 1,000 non-HMO enrollees	deaths per 1,000 persons
ed States Metropolitan Rural	26,698,924 19,363,284 7,335,640	96.70 95.80 99.16	187,739 135,428 52,311	7.03 6.98 7.18+	დიტ დიტ ღატ	0.446 0.441 0.457	:::
cheast Metropolitan Rural	6,276,897 5,564,648 712,249	99 90.89 48.09 90.89	40,674 36,048 4,626	6.35- 6.33- 6.52-	61.4 60.9 65.0	0.395- 0.391- 0.427	111
w England Metropolitan Rurai	1,569,313 1,342,886 226,427	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11,079 9,600 1,479	6.70- 6.75- 6.43	60.7 59.1 71.1	0.416 0.410 0.451	111
ine Metropolitan Rural	153,209 82,345 70,864	& & & & & & & & & & & & & & & & & & &	1,080 595 485	6.79 6.91 6.65	66.2 57.2 77.8	0.447 0.409 0.409	111
ew Hampshire Metropolitan Rurai	114,752 74,135 40,617	98.98 98.55 99.77	792 526 266	6.79 6.88 6.62	65.4 76.1	0.453 0.416 0.522	111
rmont Hetropolitan Rural	62,781 10,422 52,359	0000 0000 0000	422 85 337	6.45	56.1 47.9 58.2	0.353 0.377 0.348	:::
ssachusetts Metropolitan Rural	709,478 659,025 50,453	93.75 93.45 98.58	5,325 5,018 307	6.89 6.99 4.13	60.1 75.3	0.423 0.420 0.479	111
ode Island Metropolitan Rural	132,332 132,332 0	97.59 97.59 0.00	924 924 0	6.73 6.73 0.00	688.50	0.471 0.471 0.000	!!!
onnecticut Metropolitan Rural	396,761 384,627 12,134	97.56 97.56 99.66	2,536 2,452 84	6.32- 6.31- 6.68	56.0 56.2 49.3	0.368- 0.370 0.320	111
iddle Atlantic Metropolitan Rural	4,707,584 4,221,762 485,822	86.08.08 98.08 98.08	29,595 26,448 3,147	6.23- 6.19- 6.57-	61.7 61.6 62.2	0.388- 0.386- 0.415	111
w York Metropolitan Rural	2,143,249 1,922,371 220,878	86.86 86.86 98.26	13,717 12,199 1,518	6.10-6.03-	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.393- 0.388- 0.427	111
404 40 600 +0	•						

Table 2. Fracture of the neck of femur: Enroliment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMO	enrollment	Dischi	scharges	30-day post-adm	mission deaths	Total
		As percent		Per 1,000	er 1,00	Per 1,000 non-HMD	deaths
Area of residence	Number	0 - e	Number		discharges	-07	person
New Jersey	916,155	80	5,616	3.0			1
Metropolitan Rural	916,155 Q	97.84	٥	0.00	† O . O	000	1 1
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.648.180	8.7	. 26	. 38	6	. 38	;
Metropolitan	1,383,236	98.56	8,633	6.37-	59.6 61.2	0.381- 0.403	
- 8- 32	++6 + +07		9				
	6,901,975	6.3	1,22	۲.	66.4	0.487+	1 1
Metropolitan Rural	4,398,761 2,503,214	95.22	32,281	7.25+		478	1
	900	1	200	0	ي	47	;
	4.743,430	- 1	90	. 0	S	469	i
Rural	1,291,872	74.00	9,355	7.21		4.9	1
		•	9	0	ų,	47	;
Ohio Ohio	1,203,809	. 0	000		65.7	0.474	;
Recropol - va: Reral	276,341	90.00	1,925	26.9	7	. 47	1
	000	0	9	· C	0	546	;
	023,002 234 A57	0 0	. 0	7.52	77.2+	0.593+	;
	223,605	99.41	0	4	4.5	46	!
	1 266 011	0	32	0	က	. 46	}
Metropol:		00 P. 40	6,763	7.01	9.09	0.431	!
	312,077	9.6	. 55	. 7	0	. 54	;
	982 444	9	. 21	. 52	2	.49	;
Metropolitan	744.347	90.96	4,734	6.48-	70.0	0.470	;
	238,097	4	, 47	9 .		. 54	1
50000000000000000000000000000000000000	611,044	9.6	33	6.	Θ.	41	1
Metropolitan	369,292	99.43	2,632	6.86	58.9	0.415	1
Rural	241,752	න ග	. 70				I I
West North Central	2,156,545	3.5	, 83	. 57	6.	. 50	1
itan	945,203	88.82	8,238 542	7.94+	70.5	0.568+ 0.465	
אפרשו			2	4			
Minnesota	397,258	7.3	3,285	7.24	68.5	0.524	1 1
Metropolitan Rural	209,343	89.55	. 58	9		4.	1
se notes at end of table.							

Table 2. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

rural countie	† 1	deaths per 1,000	111	111	111	111	111	:::	111	111	111	111	111
metropolitan and	ission deaths	Per 1,000 non-HMD enrollees	0.500 0.512 0.495	0.561+ 0.600+ 0.506	0.385 0.273 0.424	0.410 0.503 0.386	0.485 0.501 0.479	0.479 0.634+ 0.386	0.452 0.455 0.445	0.428 0.436 0.409	0.367 0.411 0.293	0.339- 0.342- 0.318	0.200-
n, State, and m	30-day post-admi	Per 1,000 discharges	69.9 4.83.4	68 69 69 60 60	48.8 38.4 52.1	60.0 77.2 56.0	65.3 66.7 64.6	62.5 79.0 51.8	63.7 63.6 63.7	63.5 64.0 62.3	57.1 56.5 58.7	56.8 57.3 52.2	5.00 0.01
on and division	arges 3	Per 1,000 non-HMO enrollees	7.14	8.09+ 8.34+ 7.72+	7.30 6.83 7.48	6.89 6.90 8.9	7.70	7.73+ 8.33+ 7.35	7.26+ 7.26+ 7.26+	6.82- 6.82-	6.54 7.18 5.40	6.00 9.00 1.00 1.00	4.4.0 .00.0
y census regi	Disch	Number	3,166 1,118 2,048	5,601 3,415 2,186	648 170 478	719 148 571	1,794 589 1,205	2,617 i,098 1,519	63,723 40,852 22,871	30,608 21,925 8,683	438 307 131	2,521 2,259 262	321 0
ged population, b	nrollment	As percent of all enrollees	99.37 98.24 99.96	98.17 96.99 99.88	98.28 98.14 98.34	99.59 99.92 99.51	998.52	95.82 95.24 97.63	97.94 96.87 99.91	96.31 94.99 98.4	\$ 50 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0000 000 000 000 000	999.75 99.75 00.00
rate for the a	Non-HMD e	Number	404,057 136,818 267,239	655,875 383,255 272,620	85,433 22,964 62,469	96,216 20,427 75,789	209,910 70,076 139,834	307,796 123,748 184,048	8,980,101 5,757,016 3,223,085	4,668,855 3,313,125 1,355,730	70,251 44,355 25,896	436,606 395,091 41,515	66,196 66,196 0
irollees and total death lited States, 1986		Area of residence	Iows Metropolitan Rural	Missouri Metropolitan Rural	North Dakota Metropolitan Rural	South Dakota Metropolitan Rural	Nebraska Metropolitan Rural	Kansas Metropolitan Rural	South Metropolitan Rural	South Atlantic Metropolitan Rural	Delaware Metropolitan Rural	Maryland Metropolitan Rural	District of Col. Metropolitan Rufal

Table 2. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1986

	Non-HMD e	enroliment	Disch	a rues	30-day post-admi	ission deaths	-
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMO enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
Virginia Metropolitan Rural	566,135 355,193 210,942	99.91 99.87 99.97	3,678 2,264 1,414	6.71 6.55 6.98	62.8 63.7 61.3	0.417 0.421 0.409	111
West Virginia Metropolitan Rural	244,259 90,704 153,555	98.98 97.39 99.95	1,797 709 1,088	7.51 7.97 7.24	66 66 66 66 66 66 66 66 66 66 66 66 66	0.460 0.481 0.449	111
North Carolina Metropolitan Rural	689,138 346,905 342,233	80.00 80.00 80.00	4,397 2,267 2,130	6.73 6.81 6.65	61.8 61.2 62.5	0.407 0.413 0.400	111
South Carolina Metropolitan Rural	329,020 186,873 142,147	999. 99.05 99.05	1,942 1,143 799	6.40- 6.66 6.07-	74.5 78.4 69.1	0.444 0.481 0.398	111
Georgia Metropolitan Rural	561,716 313,319 248,397	999 99.71 40.99	4,150 2,377 1,773	7.63+ 7.82+ 7.38	64.7 67.7 60.7	0.488 0.530 0.436	111
Florida Meiropoiitan Rurai	1,705,534 1,514,489 191,045	90.97 50.04 99.17	11,364 10,278 1,086	6.96 7.00 6.65	64.1 64.4 62.1	0.450 0.454 0.405	111
East South Central Metropolitan Rural	1,726,272 873,594 852,678	99.80 99.64 99.97	13,101 6,677 6,424	7.63+ 7.71+ 7.55+	0.00 0.4.00	0.482 0.485 0.479	111
Kentucky Metropolitan Rural	422,657 183,264 239,393	99.40 99.37 99.66	3,313 1,388 1,925	7.86+ 7.48 8.16+	61.9 58.3 4.4	0.473 0.427 0.507	111
Tennessee Metropolitan Rurał	550,327 342,007 208,320	000 000 000 000 000	4,526 2,799 1,727	8.36+ 8.22+ 8.59+	65.2 62.9 68.7	0.526+ 0.497 0.574	111
Alabama Metropolitan Rurai	463,131 281,960 181,171	76.06 79.06	3,269 2,034 1,235	7.1777.38	70.3 70.3 70.3	0.476 0.491 0.455	111
Mississippi Metropolitan Rerat	290,157 66,363 223,794	86.066 86.066	1,993 456 1,537	6.67 7.07 6.56	67.0 79.5 63.2	0.423 0.560 0.387	111
See notes at end of table	•						

Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare Table 2. enrollees United St

Number Per Octoor Per Octo		Non-HMD	enroliment	Disch	arges	30-day post-adm	mission deaths	+
St. South Central 2.584.974 99.74 20.014 7.78+ 62.4 0.472 Mittal Contral 1.307.277 99.74 1.27.64 7.76+ 62.9 0.458 Mittal 1.014.675 99.96 2.485 7.45+ 7.45- 7.16 Mittal 2.00.773 99.96 2.485 7.45- 7.45- 7.45- 0.518 Mittal 2.00.15an 3.90.96 1.667 7.76 7.76 7.75 0.518 Mittal 1.02.073 99.96 1.99.77 1.944 7.74 56.7 0.518 Mittal 1.02.073 99.96 1.99.77 1.944 7.74 56.7 0.516 Mittal 1.02.073 99.96 1.1589 99.74 9.74 9.74 9.74 Mittal 1.02.06 99.77 9.72 9.74 9.74 9.74 9.74 Mittal 1.02.06 9.74 9.74 9.74 9.74 9.74 9.74 <t< th=""><th>Area of residence</th><th>43</th><th>Percent of all</th><th>u mb e</th><th>Per 1,00 non-HMD enrollee</th><th>Per 1,00 ischarge</th><th>er 1,00 non-HMO nrollee</th><th>deaths er 1,00</th></t<>	Area of residence	43	Percent of all	u mb e	Per 1,00 non-HMD enrollee	Per 1,00 ischarge	er 1,00 non-HMO nrollee	deaths er 1,00
Micropolitical 321,739 99.96 2.425 7.66+ 77.6 95.98 2.525 7.66+ 77.6 95.98 2.538 99.96 1.66 7.76 77.6 95.98 95.98 99.98 1.66 7.24 76.9 96.06 99.98 1.66 7.24 76.9 96.06 99.98 1.69 96.06 1.58 96.74 96.76 9	St South Centr Metropolitan Rural	2,584,974 1,570,297 1,014,677	9.7 9.5	0,01 2,25 7,76	7.78 7.91 7.58	999	47.	:::
Outsiana 415.968 99.98 2.883 6.83	rkansas Metropolita Rural	321,739 100,966 220,773	000	42	. 45 . 76	4.0	. 51 . 52 . 51	:::
Refronsition 378.716 99.02 3.137 8 03+ 59.5 5.45 64.5 6.45 <td>uisiana Metropolita Rural</td> <td>415,968 268,137 147,831</td> <td>000</td> <td>98,</td> <td>. 83 124</td> <td></td> <td>. 39 14.</td> <td>111</td>	uisiana Metropolita Rural	415,968 268,137 147,831	000	98,	. 83 124		. 39 14.	111
Texas 1,468,551 99.81 11,569 8.02+ 61.1 0.480 Metropolitan 1,021,156 99.73 8,000 8.02+ 61.8 0.457 Rural 3,642,659 99.73 8,000 7.27+ 61.3 0.441 Rural 1,200,638 94.36 8,700 7.27+ 60.7 0.437 Metropolitan 720,893 92.10 5,402 7.27+ 60.7 0.441 Metropolitan 1,200,638 94.36 8,700 7.79+ 65.5 0.514+ Metropolitan 720,893 92.10 5,402 7.53+ 65.5 0.514+ Metropolitan 26,247 7.59+ 65.5 0.504+ 0.573 Metropolitan 109.822 99.90 7.29 66.6 0.573 Metropolitan 10,477 99.90 7.29 6.83 78.8 0.554 Metropolitan 12,26 99.91 121 6.83 72.9 6.44 0.564	klahoma Metropolita Rural	378,716 180,038 198,678	000	. 13 . 54	. 36	9.4.7	. 54 43 43	111
st 4,539,951 93.08 32,114 7.27+ 61.3 0.441	exas Metropolita Rural	1,468,551 1,021,156 447,395	9.6 9.6	1,56 8,00 3,56	.02		.480 .490 .457	111
Politan 1,200,638 94.36 8,700 7.79+ 65.9 0.506+ Politan 720,893 92.10 5,402 7.79+ 65.9 0.514+ Politan 21,748 99.90 738 7.92 66.6 0.535 Politan 109,822 99.90 738 7.92 66.6 0.533 Politan 109,822 99.90 77 714 6.99 78.8 0.573 Politan 12,265 99.91 29.9 7.29 6.83 78.8 0.554 Politan 12,265 99.91 29.8 7.29 61.4 0.447 Politan 26,66 99.93 20.23 22.237 8.33+ 64.4 0.526 Politan 26,91 99.93 2,237 8.33+ 64.4 0.526 Politan 26,92 95.23 1,788 8.75+ 64.2 0.526 Politan 20,73 449 6.99 6.91 0.526 0.526 <td>st Metropolita Rural</td> <td>4,539,951 3,642,859 897,092</td> <td>0.00</td> <td>2,11 6,24 5,86</td> <td>.24</td> <td>₩O₩</td> <td>. 441 . 437 . 461</td> <td>111</td>	st Metropolita Rural	4,539,951 3,642,859 897,092	0.00	2,11 6,24 5,86	.24	₩O₩	. 441 . 437 . 461	111
na 97,248 99.90 738 7.92 66.6 0.535	Polita	1,200,638 720,893 479,745	4.3	29	. 79 . 95 . 53		. 51	:::
ropolitan 109,822 99.77 714 6.99 78.8 0.554	ntana Metropolita Rural	97,248 21,173 76,075	 	W 4 D	6.01	6 4 9	. 53 53 57 3	111
olitan 12,265 99.91 298 7.29 61.4 0.447 0.254 30,143 99.89 20.01 6.91 79.0 0.254 0.520 0.5	ropolita al	109,822 18,471 91,351	7.6 9.6	714 121 593	0.00		. 554 . 506 . 564	
266,663 94.73 2,237 8.33+ 64.4 0.526 01;tan 201,737 95.23 1,788 8.75+ 64.2 0.561 64,926 93.22 449 6.99 65.1 0.423	polita	42,408 12,265 30,143	0 0 0 0 0 0	000	440	- œ o	25.	111
	ta	266,663 201,737 64,926	7.28	.23 78 44	. 33	446	. 52	111

Table 2. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan and rural counties: United States, 1985

	Non-HMD e	enroliment	Dischar	arges	30-day post-admissio	ission deaths	
rea of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
New Mexico Metropolitan Rural	125,371 51,612 73,759	92.49 85.86 97.76	9 7 2 3 8 3 8 9 8 9 8 9 8 9	8.23+ 7.76 8.57+	6886 605 7.00 8.00 8.00 8.00	0.562 0.633 0.516	111
Arizona Metropolitan Rural	348,748 257,931 90,817	91.33 89.11 98.31	2,449 1,893 556	7.92+ 7.98+ 7.72	57.0 59.2 69.5	0.444 0.466 0.377	111
Utah Metropolitan Rural	128,579 93,319 35,260	0 0 0 0 0 0 0 0 0 0 0 0 0 4 0	787 573 214	6.54 4.6.54	882. 83.6	0.530 0.531 0.525	111
Nevada Metropolitan Rural	81,799 64,385 17,414	86.15 84.73 91.83	505 100 100	7.77 7.92 7.23	ტ ტ ტ დ ტ დ დ ტ	0.488 0.523 0.363	111
Pacific Metropolitan Rural	3,339,313 2,921,966 417,347	92.62 91.93 97.77	23,414 20,845 2,569	7.09 7.12 6.83	59.6 59.4 7.00	0.419 0.419 0.420	111
Washington Metropolitan Rural	461,706 346,977 114,729	92.41 90.86 97.42	3,278 2,536 740	7.18 7.28 6.87	666 625 635 635 635 635 635 635 635 635 635 63	0 4.0 4.55 9.85 8.85 8.85	111
Oregon Metropolitan Rural	303,778 181,677 122,101	88 8 . 08 . 08 . 08 . 08 . 08 . 08 . 08	2.074	6.86 6.93 7.53	57. 56.1 50.5	0.397 0.385 0.419	111
California Metropolitan Rural	2,477,248 2,330,007 147,241	93.71 93.36 99.57	17,595 16,668 927	7.14 7.08	59.0 59.1	0.416 0.417 0.407	111
Alaska Metropolitan Rurai	16,348 5,625 10,723	8 C C C C C C C C C C C C C C C C C C C	447 440	7.48 5.90 8.24	109.2 157.1 96.6	0.761 0.808 0.743	111
Hawaii Metropolitan Rural	80,233 57,680 22,553	883.64 883.31	373 283 90	5.53- 5.87 4.67-	61.6 582.6 62.8	0.307 0.327 0.262	111
TES: Only aged Medicare	re enrollees who	did not have end	d stage renal di	sease and we	re not members	of health maintena	enance

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (P<.O1). SQURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

alluca suggest 1300							
	Non-HMD	enroliment	Discharges		30-day post-adm	post-admission deaths	1013
Area of residence	Number	As percent of all enrollees	Number	Per 1,000 non-HMO enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
United States	26,698,924	96.70	187,739	7.03	63.5	0.446	;
Northeast	6,276,897	98.04	40,674	6.35-	61.4	0.395-	1
New England	1,569,313	96.20	11,079	-01.9	60.7	0.416	1
200	153.209	01	1,080	6.79	9		1
Bangor, ME	16,035	6	b	7.16	4		;
Lewiston-Auburn, ME	13,464	66.66	66	6.88	50.2	0.354	1
Portland, ME	52,846	6	377	6.84	9	•	1
S E H S S O N	114.752	6	792	7.	5.	. 45	;
TA Letter Co.	44.397	7	325	6.93	56.8	0.394	1
Portsmouth, NH	29,738	99.52	201	æ	4	. 44	;
1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	62.781	8	422	4	56.1	0.353	;
Burlington, VT	10,422	99.91	82	7.69	47.9		1
Massach	709 478	cr	er,	6.83	60.1	0.423	i
MA CONTRACTOR	429, 794	2	3,436	7.19	57.6	0.424	;
NA DIOTOR NA	65.540	8	ႂက	5.34-	71.6	0.417	1
10: tt. tt. tt. tt. tt. tt. tt. tt. tt. tt	20,281	-	163	7.55	48.0	0.373	;
Springting MA	72.225	2	529	68.9	56.7	0.400	;
Worcester, MA	71,185		533	6.68	66.3	0.431	1
Rhode Island	132.332	7.5	924	6.73	68.5	0.471	;
Providence, RI	132,332	97.59	924	. 7		•	;
the section of	396.761	7.5	2.536	6.32-			;
Bridgebort CT	96,911	9.9		6.32			;
Kartford, CT	157.139	6	1,013	6.42	50.4	0.339	1
New Haven, CT	102.964	S S	•	6.06-			;
New London, CT	27,613	99.70	178	6.59			1

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD e	enroliment	Disch	siges	30-day post-admissi	ission deaths	Total
Area of residence	Number	As percent of all enrollees	Rumber	Per 1,000 non-HMO enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000 persons
Middle Atlantic	4,707,584	98.68	29,595	6.23-	61.7	0.388-	;
3 C > 3 G N	3.24	6.8	-		8	.39	;
× × × × × × ×	115.12	8.7	78		8	. 52	1
A: notampton NY	5.57	6	242	6.63	45.9	0.360	;
	55	8.6	3		5.	. 40	;
> 2	13.69	6.6	1		5.	. 14	1
Cleas Falls NY	2	9.6	101		0	.128	!
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	97.14	9.8	75	.01	6	. 49	;
	7	9.5	, 41		9	. 35	i
Z	30,84	9.6	17	.09	ო	. 39	;
Drange County, NY	8	9.8	9	. 31	7.	. 26	1
ž	36	8.4	7		4	. 20	i
	4	8.8	9		ო	. 34	ł
Seracese >2	75.21	9.9	9	•	6	. 36	1
Utica-Rome, NY	46,733	99.90	8		2.	. 68	!
				1		6	
New Jersey	, 15	7.8	_	. 2	· •	. 30	1
	40	7.9	0	. 52	4	. 45	8
Bergen-Passaic, NJ	24	9.4	3	. 13	5	. 38	!
٦.	90	9.2	5	. 2		. 27	!
	00	4.7	3	. 73		. 43	!
Monmouth-Ocean, NJ	64	9.	972	6.59	66.1	0.433	!
2	51	9.4	2	Ξ.	4	. 35	1
	49	7.1	20	. 48	5.	. 24	1
	16,382	\vdash	8	4.	æ	. 33	!
						-	
Pennsylvania	1,648,180	98.75	10,262	6.38-	20.0	0.384-	1
Allentown, PA-NJ	99	9.0	4			097	1
Altoona, PA	69	9.0	4		20 i		!
Beaver County, PA	99	9.9	2		٠ د	. 54	!
Erie, PA	24	9.9	2		2	9 1	1
Harrisburg, PA	92	9.9	3		ک	.37	1
Johnstown, PA	56	9.9	3		œ ·	. 30	!
Lancaster, PA	40	9.9	4		O	. 43	!
Philadelphia PA-NJ	69,05	5.8	90		4	37	i
PA	49	9.0	.88	. 16	9	. 41	i
Reading. PA	47	9.8	9			. 23	-
Scranton, PA	38	9.9	8	. 81	ω.	. 28	!
Sharon, PA	00	9.9	2			. 50	!
به	03	9.9	9		46.	.31	!
PA	37	9.6	118		Ξ.	. 58	1
	4	9.9	7		9	. 56	1
See notes at end of table							

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

+	deaths per 1,000 persons	:	ę B	1	;	: :	: :	!		;		1	!	1	1	:	1	!	!	!	:	!	1	1	!	1	!	;		:	!	!!!	1 1	!	1	1	!	!	:	1	
ssion death	Per 1,000 non-HMO enrollees	0.487+	0.474+	47	. 50		0.0	.47	. 58	.47	. 45	.37	. 42		+ 0	9	.5	. 81	. 63	.37	. 59	4.	216.	70.		2 6	64	0.553		0.462	. ·	٠, د	4 6	29B	! _	~	ď	0	9.	9	
30-day post-admi	Per 1,000 discharges	66.4	66.4	9	س	o o	D 10.		2	0	B	ش		ė,		· ·	2	е Э	:	5	4	o	•		, p c			65.2		63.3	٠.	ດ ເ		٠,				9		6	
harges	Per 1,000 non-HMD enrollees	7.21+	7.03	0	4.	٠ د		. 4	. 20	°.	Ξ.	0	0.	9	90.4	?	.5	٥.	.5	0	4.	٦,	<u>ق</u>		ų, c		٠.	7.86	,	2		9.0	7 4	, 0		•	<u>.</u> α	9 0		. 6	,
Disc	Number	51,228	33,398	3	5	ω c	1,238	10	. 49	0	4	2	8	123	ο,	4	6	15	9	9	9	314	32	N	000	0 0	20	162	•	9,320	~ •	~ •	1 8) u	2 6	1 6	- 1	- K	224	100)
enroliment	As percent of all enrollees	96.39	97.76	9.4	9.9	ດ. ດ. ເ	99.00		0	6	6.6	9.8	6.6	8	6	න න	7.8	9.8	9.6	9.9	5.7	7.7	7.0	ص ص	ص ص		ה ה ה	00.00		5.9	8	o (ي د د) C	איני	- 0	ה ה ה	0 0	ກ ຕ ກ ຜ ກ ຜ	0	•
Non-HMD	Rumber	6,901,975	4,745,430	3,86	75,61	51,89	159,407	946,54	03.54	26.00	9,57	7,34	5,23	1,93	0,66	9,31	3.06	17.19	7,91	5,64	4,43	7.56	61,16	8,40	9.84	1,22	01.0	10,10	,	5,01	0,94	2,67	98,89	d, L3	, a	0.0	20.7	0,0	70,048	4 20	•
ited States, 1986	Area of residence	North Central	East North Central	0 40		± ·	-		· =)	y T.	O		I	Youngstown, OH	nd:a	c	100mington	Ikhart-Goshen	vansville, IN-KY	ort Wayne, IN	агу-Наттоп	I 'silodeneipu	okomo, IN	ataye	uncie, in		1 1000	w)	urora-Elgi	loomington,	hampaign.	Chicago, IL	Decatur, 10	oliet, it	BINGKEE, L	ake county,	Dockford II		

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMO enroll	nrollment	Disch	scharges	30-day post-admission	ission deaths	
		As percent		Per 1,000 non-HMD	er 1,		deaths per 1,000
Area of residence	Number	· -	Number	n roll	discharges		person
2000	982.444	6.8	6,213	. 5	72.7+	0.490	1
nn Arbor	17,760	95.12	132	7.05		. 5	;
- 61	16,831	9.8	114	9	87.	9	
bor.	21,618	9.8	13	4.		9 .	
	448,826	6.4	2,774	4.		₹!	
Fish, MI	43,084	1.0	270	ε.		. 2	;
Grand Rapids, MI	64,091	5.4	491	ب		٠,	
	17,046	9.8	108	₹.		. 2	!
	21,512	9.8	149	. 7		2.	
Ē	32,460	0.2	200	Φ.		٠,	;
000	18,957	8.0	139	. 7		٠.	
	42,162	6.1	222	4		₹.	
	440 044	4	6	0	α	4.	;
WI SCORS I	++0,119	n c	5 .	. 0		1	!
Appleton, WI	204,42	א אינ	٠,		2 2	27	
Eau Claire, WI	007.01	n c	4 4	, α		67	;
Green Bay, WI	19,160	n 0) -	. 4	. α	4	!
Janesville, WI	16,529	ם ספ	40		ی د	77	
Kenosna, W.	147,41	n c	h (. 0		9	
Lacrosse, W.	377 06	7.0	272	8.26		0.394	1
-	0 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	. c	0	4	0	. 43	
DITTERNATION AT	20,613	0 0	12		7	. 23	;
	14 461	0	10	9	6	. 26	;
	12,945	30.00	77	0	89	. 45	i
	•					- 1	
West North Central	2,156,545	93.50	17,830	7.57+	66.4	0.509+	;
25.25.00.00.00.00.00.00.00.00.00.00.00.00.00	397.258	7.3	3,285	.2	8	. 52	1
District Mark	29.977	76.74		7.19	66.5	0.471	!
Minneadolis, MX-WI	141,769	4.4	1,317	.5	0	. 57	1 1
ester, MN	9,393	9.6	œ	0	9	. 74	;
St. Cloud, MN	12,248	0.9	105	. 7	ю	. 45	1
t worth	404.057	e e	9	-	6	. 50	1
0 20 10	10 323	0	15	er,	8	. 43	1
Coder Repose in	44 646	. 0	35.4		-	.41	1
	40.067	. 4 	9	2	е Э	.65	1
1	11,460		6	8	5	. 74	1
TORN CITY IN	6.240	0	4	3	9	. 59	1
A TOWN CONTRACTOR	15,951	6.6		7.34	42.5	0.330	:
	19,521	96.66	129	ε.	0	. 43	1

See notes at end of table.

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division. State, and metropolitan statistical area: United States, 1986

oble 3. Fracture of the inclines and total death ited States, 1986	rate for the aged p	opulation,	by census region	and divisi	on, State, and me	tropolitan st	atistical area
	Non-HMO	enroliment	Discha	arges	30-day post-adm	mission deaths	4
Area of residence	Number	As percent of 211 enrollees	Number	Per 1,000 non-HMD enrollees	Per 1,000 discharges	Per 1,000 non-HMD enrollees	deaths per 1,000
	-	α.	C	0		. 56	1
OM		. 6	9	. 15		. 548	;
Job i n MO		6	9	9.	70.	. 63	;
Kansas Citv. MO-KS		5.7	2	æ	77.	. 683	!
		6.6	12			. 28	;
St. Louis, MO-IL	283,167	7	2,381	8.00+	63.0	0.517	1
Springfield, MO	27,676	99.94	24	4.		. 41	1
North Dakota	85.433	8.2	4	€.	00	ε.	;
Bismarck MD	8,160	5.1		0	6	11	1
ND ON THE	14,138	6.5	-	0	2	. 53	!
Grand Forks, ND	5,687	99.95	4 5	7.20	18.0	. 15	!
		- 1	4	•	<	*	
South Dakota	96,216	Ω (5n u	50 C	200	0.410	1
Rapid City, SD	7,152	90	4	ດ	٠,	74.	i i
Sioux Falls, SD	13,275		102	9	ò	0.	3
- C - C - C - C - C - C - C - C - C - C	-	. 25	0	7	5	. 48	;
1	0	. a	9	0	8	. 50	:
Charles NF-1A	57,609) o) o) o) o	4 9 5	8.01	58.2	0.440	;
	•)					
X S S S S S S S S S S S S S S S S S S S	9	5.8		. 7	ò	4	;
Lawrence, KS	9	7.7	4	9.	7	.17	:
	8	7.2	7	0	ო	.82	;
Wichita, KS	45,844	88.57	396	8.02	74.4	. 57	1
:		1	100	4	7 63	0.452	;
South	8,980,101	•	03,723		0		!
South Atlantic	4,668,855	96.31	30,608	6.82-	63.5	0.428	!
	5	0	67	- 62	7	. 36	;
Wilmington, DE-NJ-MD	58,114	99.65	369	6.67	57.8	0.389	;
		,	L	3	4	220	1
Mary land	436,606		2,521 1 245	א יכ		0.327-	: :
	17 051		, -	α.	0	560	;
Hagerstown, MD	14,522	50.00	06	6.31	30.8		1
District of Col	2	7	321	33	m,	. 200	1
Washington, DC-MD-VA	261,121	30.08	1,500	5.72-	60.4	0.330-	;

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD e	enrollment	Disch	arges	30-day post-adm	mission deaths	4
		ercen		er 1,00 non-HMD	Per	er 1,00	9 6
Area of residence	Number	0	Number	- 0	scharge	0	9
6.5	566,135	9.9	3,678	7.	2		
Charlottesville, VA	12,020			7.53	57.0	0.499	i
	15,532	9.9	6	. 2	7	. 27	
Lynchburg, VA	18,110	9.9	104	۲.	3	. 22	i
Norfolk, VA	102,601	9.9	2	₹.	4	. 49	i
Richmond, VA	85,698	9.9	9	9.	5	. 35	i
Roanoke, VA	30,622	9.9	3		œ	. 34	1
		6	7	U	4	A.F.	
West Virginia	244,259		ם ת		- a		
Charleston, WV	34,215	y . y	n c	٠, ‹	n c	- 0	
×-	40,891	9.9	0 1	11	ກ ຈ	9 4	
rkersburg, W	19,888	40.00	1 / 9	7 00	m c	0.628	ł
Wheeling, WV-OH	22,016	2.5	٥	n.	D	. u	1
serious dans		6.6	6	7	*	. 40	;
		0	18	7	ŝ	. 47	l i
D = 1 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -		. 0	00	0	6	. 23	i
)		. 0	730	0	0	38	í
2		. 0	9	4	4	.37	i
A STATE OF THE STA			1	. 0	- 4	44	1
Greensboro, NC		n 0	157	. "		0.801	;
ALCROTY, AC			0	9	9	50	1
ACROCIATION A		. α	35.5	*	9	.37	1
	12,634	\0.00 \0.00	62	5.26	31.3	. 18	1
2) •					
South Carolina	329,020	9.4	4	4.			1
	ဖ	9.7	1	9.	7.	. 63	1
Charleston, SC	4	8.9	6	ε.	6	. 27	i
Colembia	35,361	0	178	5.40-	6	0.356	1
Florence	***	9.9	5	6.	6	. 42	i
Greenville, SC	65,893			. 2	œ	. 54	!
00000	561, 716	7 6	4.150	9.	4	. 48	i
	9.292	20.00		8.15	41.8	0.361	ı
	100	6.6	-	-	8	.31	1
3		9.2	$\overline{}$	Ψ.	9	. 53	
		9.9	21	°.	6	. 58	i
s. G	- (~)	9.9	4	. 5	4	.30	1
GA	25,929	9.9	170	8	52.	.39	i
=	LCI	9.9	9	. 7	-	. 88	1
See notes at end of table.							

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

				•			Total
		As percent		r 1.	,	L.	deat
		of all	4		rer 1,000		7 7 9
Area of residence	Nemper	enrollees			90 - 9 - 90 -		
E	1,705,534	6.0	9	6	4	. 45	;
rade pt.	42	9.6	29	0	0	. 60	;
1 5 6 9	62,616	2.9	458	5	е Э	. 56	!
۰-	181,839	1.0	00	6	ო	. 38	!
· -	61.428	9.6	31	۲.	5	. 28	1
בע פענם אַנע	41.198	2.0	6	7	6	. 46	!
י ני	10,169	8	9	ω,	8	.12	1
•	16.758	5	2	0	9.	. 62	:
T 6-1-2-00-4-6-	80.895	8.2	9	3	9	. 50	;
	55.495	5.5	5	o.	8	. 51	;
Mary Constitution of the c	46.501	7.6	0	æ	S.	. 34	1
	168.502	5	1.334	6.	9	.40	1
	23,433	7 6	12	80	5	. 42	;
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31.367	9.5	4	6.	5.	. 40	;
	90,604	8.5	4	5	5	. 54	:
Panama City FL	11.817	9.7	S	7	9.	.40	;
Pensacola, Fi	29.972	8.	0	7.	。	. 41	!
Sarasota, FL	77,895	99.81	206	6.94	56.9	0.403	:
Tallahassee, FL	17,414	7.8	12	7	س	. 53	!
Tampa, FL	323,951	7.0	0	0	7	4.8	!
α.	139,729	5.2	_	9.		. 43	;
East South Central	1,726,272	08.66	13,101	7.63+	65.9	0.482	i
7	422 657	7	-	ω.	-	.47	!
Lexinaton, KY	31,008	8	216	6.77	46.7	0.315	;
	107.485	9.2	6	.2	+	. 47	1
	10,319	96.66	87	. 2	5	. 20	!
Tennessee	550,327	9.6	4,526	es.	65.2	0.526+	1
		9.9	4	9.	ო	.71	;
Clarksville, TN-KY	12,541	99.91	109	8.70	÷.	.39	!
Jackson, TN		9.9	7.7	0		. 21	<u>.</u>
Johnson City, TN-VA		9.9	422	0	-	9.	!
Knoxville, TN		9.9	584	٠.	ė,	. 52	1
Memphis, TN-AR-MS		8.0	665	<u>ښ</u>	6	. 51	:
Nochu: I to Th		0		4	4	4	

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	deaths per 1,000		j 1	!	:	!	1	!)	!	1	;	;	;			:	;	;	;	!			!	1	;	1		}	\$ 8	;	1	1	!	1	;	;	!	: :	ì	1	
ission deaths	Per 1,000 non-HMO enrollees	4	÷ .	.35	0.506	.16	51	AO	h (36.	.37	. 54	. 64	42	74	100	4	. 14	0.472	0.518	.83	0		+	. 24	40	-		7 9	4	. 21	.34	.37	. 50	0.322	. 48	333	13	2007		. 56	
30-day post-admission	Per 1,000 discharges			÷	δ.	8	2	-			7	2	92.3	7	. 4	0 0	·	6	62.4	71.6	C	Y Y	F 4		8	ď) -	•	n (0	7	9.	7	46.1	6	4	· uc	10.44		œ	
scharges	Per 1,000 non-HMD enrollees	•	٦.	9.	۳.	80	Œ	•	t	Ņ	-	۳.	7.96	4		יים מיים מיים	5		7.78+		7.5	0	۰		4.72	α	. 4		7	S	6.	4.	7	7.1	7.77	0	4	. 4	00.7	•	7	
Disch	Number		3,269	81	788	7	. С) 7	- 1	m	œ	4	110	0			-	52	20,014	2.425	٥	חר	0/1	0	55	α	2	101	9/7	72	101	16	157	(r) (c) (c)	307	3.137	, K	- 0	0	500	O	
nrollment	As percent of all enrollees		6.6	6.6	0	0		n (ص ص	g. 6	9.9	0	66.66	0	n (י ע	ი ი	99.88	99.74	0		n c	y .	o. 0	99.98	0	h (n (0.0	9.9	9.9	0		800000000000000000000000000000000000000	o			יי רכ יי רכ זי רכ סיר	4.	8.1	
Non-HMD enroll	N umber		463,131	13,124	108,546	12 600	16.630	100.01	14,295	17,137	50,513	20 832	13,604			ò	5,30	8	2,584,974	221 739	000	11,603	21,413	30,966	11,012	415 060	000.014	13,619	39,583	13,501	14,620	16.436	14.648	110 708	36,822	317 976	200	0,213	177'9	88,640	71,032	
	Area of residence		Atabama	Annieton Ai	1 E		7 K	•	Gadsden, AL	Huntsville, AL						Biloxi-Gulfport, MS	Jackson, MS	Pascagoula, MS	West South Central		000000000000000000000000000000000000000	Fayetteville, AK	Fort Smith, AR-OK	Libble Rock, AR	Pine Bluff, AR		Louistana	Alexandria, LA		Houma-Thibodaux, LA		Take Charles - A		- 6		6	0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 =	, a		Okiahoma City, OK	Tulsa, OK	

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1988

4	S to C to	e 1 80 1	;	1 1	! !	:	!	!	;	;	1	1 1	: :	;	;	:	:	;	:	-	;	:		1	:	1 1]	1 1	1		1	;	;	!		;		1 1	1	
ission deaths	non-HMD	0	4.8	000	, מ ה	42	. 56	.36	. 10	49	25	5 a	5.7	44	. 69	. 43	.47	. 73	. 43	90.	07.	70.	. 4 C	. 6	. 61		. 4	767.0	0 441		0.506+		35	. 45	7	0.506	*	0.193	.30	
30-day post-admissi	Per	scharge	-	თ (, L		6	5	9	8		+ u	٠ د		4.	е Э	თ	е Э	œ ·		m (ი u	1 0	٠,		n o	98.2		-	65.9	9	53.0	7	a	73.0		20.0	Š.	
arges	er 1,00 non-HMO	h	0	<u>ق</u> د	. 4	-	0	7	۳.	7	د	20 C	, r	? ?	.82	0	٦.	٥.	9	0.1	9.	י פר		٥.	ي. د	۰ ۲	9	7 8 7 8 8	7.0		7.79+	σ.	7.55	e.	C	. e. e.	•	8.11 8.11	6	
Disch		Number	9		0 4	+ 1	- 00		6	\vdash		mu	0 +	4 40	16	5	2		2			80 6	20 •	- 0		4 (3	4 F		22,114	8,700			52		121		298		
enrollment	Pe T	enrollees	9.8	6.6		, o	0	. co	6.6	5.5	9.9	თ. თ. (n 0	n co	6	9.9	6.6	9.9	ω. ω.	ۍ ص	6.6	رن ري	9.2	9.9	თ. თ.	5. 5. (9.0	51 C		83.08	94.36	6	8	99.91	1	06.66		m on on	9.9	
Non-HMD e		Number	55	13,10	9,06	, c	4 00	0.16	6.95	3,41	11	, 29	4 6	000	1 8	3.42	0.54	95	7,40	36	9,20	11,21	7,98	4,53	33	8,22	18'9	23,624		4,539,951	1,200,638	7.24	60	6	-	18,471		42,408 5,379	88	
ממקברי וייים		Area of residence	Texas	Abilene, TX	Amarillo, TX	AUStin, IX	Dragonio TX	Drownski - e. TX	Bryan, TX	Corpus Christi, TX	Dalias, TX	El Paso, TX	Fort Worth, 1X	Galveston, A	X: Leen-Temple, TX		Longview. TX	Lubbock, TX	McAilen, TX	Midland, TX	Odessa, TX	San Angelo, TX		Sherman-Denison, TX	Texarkana, TX-AR	Tyler, TX	Victoria, TX	Waco, TX		West	Mountain	Montana	i I i nas	Great Fails, MT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Boise City, ID		Wyoning Casper Wy	Cheyenne, WY	

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1986

	Non-HMD	enrollment	Disch	scharges	30-day post-adm	mission deaths	, K
		As percent of all		Per 1,000 non-HMD	e 1	Per 1,000 non-HMD	deaths per 1,000
Area of residence	Number	-	Number		•	- 5	person
Colorado	266,663	4.7	ന	ъ.	64	. 52	i
	15,143	7.9	11	ε.	-	. 73	;
	24,899	5.0	22	4	ထေး	. 56	1
Denver, CO	119,624	4.1	-	0.	m (:
Fort Collins, CO	15,089	9.7	0	0.	۰ ه	. 4 U	•
Greeley, CO	11,610	99.62	101	80 G	51.9	0.500	: :
Pueblo, CU	15,312	† •	М	?	•	•	
	ď	4	1	. 2	6	. 56	;
	2 6	0	253	7.1	9	. 56	!
2	, 0	0	9	7.46	113.4	0.919	:
Santa Fe, NM	8,454	93.66	19		89.	. 60	:
		,	•	0	-	4.4	
	348,748	0 IC	2,449	+36.7	55.0	513	: :
Phoenix, AZ	186, 381		5 d		. 4	3 6	: :
Tucson, AZ	066.07	٠ و	5			2	l I
4 4 5 5	α	a	787	S	2	. 53	!
= 0	7 4		0	L.	2	80	1
Provo-urem, ur	77.243	0 45 0 00 0 00	478	6.54	72.9	0.477	;
		•					
R	1,7	6.1	0	7.77	63.9	0.488	;
AN SECON SE	5.2	2.9	œ	7	0	. 56	
	19,133	89.17	119	<u>ن</u>	4	. 43	1
	000	4	00 A1A	7 00	20 6	0.419	1
Pacitic	5,358,313	79.76	1 1 0	•	, h	•	
East atton	461.706	2.4	~	=	2	4	;
AN Exton: an	_	9.5	Ξ	0	4	.27	!
Breatton WA	15,439	6.5	-	1	6	. 59	!
43 % QE > 10	14,254	86.06	86	98.9	54.9	0.346	:
Rich and WA	12,559	9.6	9	6.	2	. 18	1
Seattle: *A	159,828	6.5	1,246	5	4	. 48	1
Spokane, KA	4	4.5	29	æ	6	. 45	E -
Tacoma, WA	50,245	7.2	4	0.	。	. 50	1
Vancouver, WA	17.048	0.3	0	2	6	. 12	;
Yakima, WA	22,738	9.7	9	4	4	. 60	;
	7	α	-	œ	7	99	!
	- a	2	16	1	'n	.38	1
-	9 C	00	2	9	7	30	;
	99,155	72.79	824	7.45	54.4	0.399	1
Salea, OR	33,249	0.3	2	ω.	0	. 38	1
See notes at end of table.							

Table 3. Fracture of the neck of femur: Enrollment, short-stay hospital discharges, and post-admission deaths for aged Medicare enrollees and total death rate for the aged population, by census region and division, State, and metropolitan statistical area: United States, 1996

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMDs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates the rate is significantly greater or less than the U.S. rate (p<.01). SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

Medicare discharges categorized as high-risk or low-risk conditions

mortality rates for the United States for each ow-risk groups based on observed mortality. Administration has released hospital-specific Financing Administration, 1987, 1988). The data released in these publications are rates expected mortality based on a multivariate discharges combined and for 16 individual of 30-day post-admission mortality for all diagnostic categories. The categories are The data shown are the actual mortality characteristics and important comorbid 95-percent confidence interval range of model that includes basic demographic rates for a given hospital as well as a divided into nine high-risk and seven year beginning in 1986 (Health Care The Health Care Financing conditions.

hospital-specific mortality data and this data hospital-specific basis, the population at risk characteristics and area. (The other high-risk population-based rates cannot be calculated. discharge rates are presented in this volume. For example, a specific hospital in a large category, stroke, is discussed separately in mortality rates for 15 of those diagnostic categories are presented by demographic urban area could have a large volume of discharges for a particular diagnosis, yet In this section, 1986 discharge and nospitalization rate in relation to the this volume.) There are a number of compilation. First, population-based those events might represent a low important differences between the cannot be readily determined so When data are generated on a

potential patient population. In contrast, another hospital's discharges for the same diagnosis, despite a smaller volume of cases, could represent a higher rate of hospitalization because of a relatively small potential patient population. The discharge rate (number of discharges per 1,000 Medicare enrollees residing in an area) provides a context in which to view other data, such as the mortality rates. The extent to which area practice patterns are similar to or different from regional and national averages can be gauged from discharge rates. Second, although the 30-day

post-admission mortality data provided on a hospital-specific basis are adjusted for age and sex, age- and sex-specific rates are not shown; that is, the effect of age and sex on mortality is incorporated in a single rate for each diagnostic category. In this publication, however, the basic mortality rates for a number of demographic subgroups are presented for the Nation as a whole.

A third difference is the inclusion of 30-day post-admission mortality information in this publication on an area basis. In the publication of hospital-specific mortality rates, it is not shown how rates vary among areas of the country. The user can observe how many hospitals in a particular city or State fall above or below the predicted range of mortality, but it is difficult to ascertain whether the city or State as a whole is above or below national averages. In this publication, mortality rates are presented for U.S. census regions, divisions, and States, as well as for individual metropolitan statistical

areas (MSAs) and for the combined rural counties within a State.

A fourth difference is the inclusion in this volume of population-based mortality rates per 1,000 persons, derived from the national death certificate files maintained by the National Center for Health Statistics and from population counts of the U.S. Bureau of the Census. This volume includes in the same table statistics for the discharge rate, 30-day post-admission deaths per 1,000 discharges and per 1,000 enrollees, and the population-based death rate.

a random discharge is not given. In contrast, of the rate. Thus, the hospital-level statistics hospitals, the actual probability of death for hospitalizations for which a patient survived does not bias the relative comparison across beyond 30 days are excluded from the base Although it is believed that this procedure represent the actual 30-day post-admission Finally, the mortality rates calculated in the hospital-specific mortality data release person within the calendar year. Previous include all deaths but not all discharges. the rates in this volume are based on all mortality risk following hospitalization. are based on the last discharge for any discharges during the year and thus

In general, the rates presented here on an areawide basis can serve as useful adjuncts to the data included in the hospital-specific tables. The intent of this compilation is to provide basic descriptive information on discharge rates and relative mortality that can be used to determine how utilization

and outcomes vary by demographic characteristics and geographic areas.

In Tables 1 through 5, the discharge rate per 1,000 enrollees, the 30-day post-admission death rate per 1,000 discharges, and total deaths per 1,000 persons are summarized for the 15 high-risk and low-risk diagnostic categories by age, sex, race, and geographic area. Together, these 15 categories account for about 60 percent of discharges (199.36 discharges per 1,000 enrollees out of 327.09) for Medicare enrollees 65 years of age or over and about 63 percent of all deaths in the aged population (32.10 deaths per 1,000 persons out of 51.02).

High-risk and low-risk diagnostic categories are grouped separately in these tables. The discharge rates per 1,000 enrollees were generally higher for the low-risk conditions than for the high-risk conditions.

As shown in the tables, there are notable differences in the risk of death within 30 days of admission between high-risk and low-risk conditions. Among the high-risk categories, the 30-day post-admission death rates for 1986 ranged from a low of 145.9 deaths per 1,000 discharges (about 15 percent) for severe chronic cardiovascular disease to a high of 335.3 deaths per 1,000 discharges (about 34 percent) for renal

disease. In contrast, among the low-risk categories, mortality ranged from 5.5 deaths per 1,000 discharges (about one-half of 1 percent) for gynecological disease to 27.7 deaths per 1,000 discharges (about 3 percent) for circulatory disease.

As shown in these tables, population

and cancer (6.55 per 1,000 persons).

The data are summarized by age in
Table 1. Discharges per 1,000 enrollees
increased with age, with the exception of
cancer (high risk), circulatory disease (low

circulatory disease (8.44 per 1,000 persons),

disease (8.89 per 1,000 persons), low-risk

highest for severe acute cardiovascular

death rates (deaths per 1,000 persons) were

Table 1. Short-stay hospital discharges and post-admission deaths per 1,000 discharges for aged Medicare enrollees and total deaths per 1,000 aged persons for selected high-risk and low-risk diagnostic categories, by age: United States, 1986

		Discha 1,000 non-h	larges per HMO enrollees	Si	36	-day post-a per 1,000	30-day post-admission deaths per 1,000 discharges	aths		Total d 1,000	Total deaths per 1,000 persons	
	All	65-74	75-84	85 years	All	65-74	75-84	85 years	All	65-74	75-84	85 years
Diagnostic category	ages	years	years	or over	ages	years	years	or over	ages	years	years	or over
All diagnostic categories	327.09	263.83	400.62	499.05	9.62	56.8	87.3	137.6	51.02	28.01	63.48	153.98
Subtotal	199.36	163.56	241.95	294.49	I	ı	ı	I	32.10	18.18	39.59	94.69
High-risk conditions												
Severe chronic cardiovascular disease	18.72	11.61	25.81	41.80	145.9	114.0	147.9	198.9	1.75	0.78	2.12	6.62
Pulmonary disease	17.83	10.70	23.43	45.84	180.3	123.0	183.2	261.7	2.48	0.79	2.97	11.51
Cancer	13.20	13.09	14.37	10.21	256.8	235.2	278.9	336.1	6.55	5.64	7.75	8.33
Severe acute cardiovascular disease	13.10	10.87	16.35	17.10	269.2	209.1	305.5	404.1	8.89	5.28	11.65	22.39
Metabolic and electrolyte disorders	5.81	3.02	7.85	17.25	171.8	154.1	164.5	202.1	0.31	0.13	0.34	1.30
Infectious disease	3.59	2.07	4.85	9.27	263.7	212.9	264.0	336.5	0.57	0.28	0.72	1.90
Gastrointestinal catastrophies	2.47	2.14	2.83	3.43	246.3	209.3	262.3	352.6	0.67	0.53	9.76	1.19
Renal disease	1.36	0.81	1.85	3.30	335.3	260.3	344.5	438.1	0.56	0.24	0.73	2.01
Severe injury	0.55	0.34	0.76	1.19	216.7	173.0	221.1	289.7	ı	ı	I	١
Low-risk conditions												
Circulatory disease	43.21	38.37	51.04	49.34	27.7	20.3	31.9	50.8	8.44	3.56	10.15	33.39
Cutaneous and musculoskeletal conditions	27.24	22.81	32.34	39.44	20.5	11.5	23.1	46.6	0.85	0.52	1.04	2.32
Gastrointestinal disease	21.51	18.61	25.41	27.69	26.8	15.6	31.6	60.7	0.33	0.14	0.41	1.20
Urologic disease	12.62	11.88	14.28	12.08	17.2	8.0	22.3	55.8	0.13	0.05	0.17	0.54
Neuropsychiatric and sensory disease	14.18	12.47	17.36	15.01	19.4	13.4	22.8	38.2	0.57	0.24	0.77	1.97
Gynecological disease (female only)	3.97	4.77	3.42	1.54	5.5	3.1	8.3	24.7	0.00	0.00	0.01	0.05
MOTEO. Only												

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly

SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

risk), urologic disease (low risk), neuropsychiatric and sensory disease (low risk), and gynecological disease (low risk). In the high-risk categories, the increases with advancing age tended to be quite large. In six of the high-risk categories, persons aged 85 or over had discharge rates that were three to five times as great as rates for persons aged 65–74 years. For low-risk categories, the age effect was much less pronounced.

The 30-day post-admission mortality rate increased with age in all conditions. The age effect was less for high-risk than low-risk

conditions. Only one high-risk category, pulmonary disease, had a mortality rate among persons aged 85 or over that was twice as great as the rate for persons aged 65–74. In the low-risk categories, for which mortality rates are low, age had a greater effect. For example, persons aged 85 or over had almost seven times the mortality rate for urologic disease than persons 65–74 had (55.8 and 8.0 deaths per 1,000 discharges, respectively). Population death rates increased with age for all 15 conditions.

ge In Table 2, the data are shown by sex. In 11 of the 15 categories, discharge rates were

aged Medicare enrollees and total deaths per 1,000 aged persons for selected high-risk and Table 2. Short-stay hospital discharges and post-admission deaths per 1,000 discharges for low-risk diagnostic categories, by sex: United States, 1986

	_	Discharges per 1,000	8 0	30-day	30-day post-admission deaths per	Imission er	F	Fotal deaths per 1,000	shs 0
	l-uou	non-HMO enrollees	seello	1,0	1,000 discharges	arges		persons	(0
	Both			Both			Both		
Diagnostic category	sexes	Men	Women	sexes	Men	Women	sexes	Men	Women
All diagnostic categories	327.09	354.81	308.69	9.62	89.3	72.3	51.02	29.97	44.92
Subtotal	199.36	219.75	183.19	1	1	I	32.10	38.64	27.64
High-risk conditions									
Severe chronic cardiovascular disease	18.72	20.40	17.61	145.9	157.6	136.9	1.75	1.89	1.66
Pulmonary disease	17.83	22.12	14.99	180.3	194.9	166.0	2.48	2.99	2.14
Cancer	13.20	16.81	10.81	256.8	275.9	237.1	6.55	8.88	4.97
Severe acute cardiovascular disease	13.10	16.81	10.64	269.2	260.9	278.0	8.89	11.10	7.38
Metabolic and electrolyte disorders	5.81	5.12	6.27	171.8	224.7	143.1	0.31	0.29	0.32
Infectious disease	3.59	3.79	3.45	263.7	271.1	258.3	0.57	0.62	0.53
Gastrointestinal catastrophies	2.47	2.69	2.32	246.3	249.9	243.6	0.67	0.79	0.58
Renal disease	1.36	1.68	1.15	335.3	352.3	318.8	0.56	0.67	0.48
Severe injury	0.55	69.0	0.45	216.7	227.0	206.1	l	1	1
Low-risk conditions									
Circulatory disease	43.21	46.73	40.88	27.7	31.7	24.7	8.44	9.23	7.91
Cutaneous and musculoskeletal conditions	27.24	21.03	31.36	20.5	27.0	17.5	0.85	1.01	0.74
Gastrointestinal disease	21.51	22.80	20.64	26.8	27.7	26.1	0.33	0.32	0.33
Urologic disease	12.62	25.82	3.86	17.2	14.9	27.5	0.13	0.18	0.10
Neuropsychiatric and sensory disease	14.18	13.26	14.79	19.4	28.1	14.2	0.57	0.67	0.50
Gynecological disease (female only)	3.97	1	3.97	5.5	1	5.5	0.00	0.00	0.00

VOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census

enrollees) that was almost 6.7 times that for greatest difference was for urologic disease. cancer, severe acute cardiovascular disease. which had a rate for men (25.82 per 1,000 musculoskeletal conditions (low risk), and neuropsychiatric and sensory disease (low women (3.86 per 1,000 enrollees). In five risk)-the discharge rates were greater for one-third less than that for men. In three high-risk categories—pulmonary disease, categories—metabolic and electrolyte higher for men than for women. The renal disease, and severe injury-the discharge rate for women was about disorders (high risk), cutaneous and women than for men.

Women generally had lower 30-day post-admission mortality rates than did men. A notable exception was urologic disease (low risk), for which mortality among women was 85 percent higher than mortality among men. Population death rates per 1,000 persons were lower for women than men for all categories except metabolic and electrolyte disorders (high risk) and gastrointestinal disease (low risk).

Table 3 contains data by race. With regard to heart and circulatory conditions, black persons were more likely than white persons to be hospitalized for severe chronic cardiovascular disease (high risk), but they were less likely to be hospitalized for severe acute cardiovascular disease (high risk) or for circulatory disease (low risk). Categories in which black persons had notably higher discharge rates include metabolic and electrolyte disorders (high risk), infectious disease (high risk), and renal disease (high

Generally, the 30-day post-admission mortality rates for white persons and black persons tended to be similar, with a few

aged Medicare enrollees and total deaths per 1,000 aged persons for selected high-risk and Table 3. Short-stay hospital discharges and post-admission deaths per 1,000 discharges for low-risk diagnostic categories, by race: United States, 1986

	Di P non-H	Discharges per 1,000 non-HMO enrollees	lees	30-day post-admission deaths per 1,000 discharges	-day post-admissi deaths per 1,000 discharges	ssion	Tota	Total deaths per 1,000 persons	
Diagnostic category	All persons ¹	White	Black	All persons ¹	White	Black	All persons ¹	White	Black
All diagnostic categories	327.09	328.74	329.57	79.6	79.6	84.9	51.02	51.00	56.13
Subtotal	199.36	201.72	185.79	I	1	1	32.10	32.24	33.76
High-risk conditions Severe chronic cardiovascular disease	18 72	18.53	22 42	145.9	151.1	105.5	1.75	1.73	2.17
Pulmonary disease	17.83	18.06	16.23	180.3	180.8	186.1	2.48	2.51	2.32
Cancer	13.20	13.14	14.60	256.8	258.0	256.2	6.55	6.53	7.38
Severe acute cardiovascular disease	13.10	13.44	10.16	269.2	271.2	251.5	8.89	9.00	8.65
Metabolic and electrolyte disorders	5.81	5.46	10.41	171.8	171.6	178.3	0.31	0.28	0.58
Infectious disease	3.59	3.47	5.22	263.7	259.4	304.0	0.57	0.53	1.01
Gastrointestinal catastrophies	2.47	2.51	2.12	246.3	247.0	247.1	0.67	0.68	0.62
Renal disease	1.36	1.23	2.95	335.3	351.6	267.6	0.56	0.52	1.05
Severe injury	0.55	0.55	0.53	216.7	218.7	179.4	1	1	ı
Low-risk conditions									
Circulatory disease	43.21	44.05	37.05	27.7	28.0	25.8	8.44	8.57	8.03
Cutaneous and musculoskeletal conditions	27.24	28.13	18.65	20.5	20.6	21.3	0.85	0.84	0.97
Gastrointestinal disease	21.51	21.97	17.54	26.8	26.7	31.1	0.33	0.33	0.30
Urologic disease	12.62	12.73	12.00	17.2	17.0	22.1	0.13	0.13	0.21
Neuropsychiatric and sensory disease	14.18	14.33	13.58	19.4	19.2	23.4	0.57	0.59	0.46
Gynecological disease (female only)	3.97	4.12	2.33	5.5	5.3	11.8	0.00	0.00	0.01

¹ Includes persons of other races in addition to white and black persons.

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex.

SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census

exceptions. Population death rates (total deaths per 1,000 persons) were notably higher for black persons than for white persons in several diagnostic categories, including severe chronic cardiovascular disease, infectious disease, and renal disease. White persons has a substantially higher population death rate for neuropsychiatric and sensory disease.

These data are shown by metropolitan and rural areas in Table 4. Discharge rates were higher for residents of rural areas than

for residents of urban areas for all conditions except the high-risk categories of cancer, infectious disease, and gastrointestinal catastrophies and the low-risk category of neuropsychiatric and sensory disease.

The 30-day post-admission deaths per

The 30-day post-admission deaths per 1,000 discharges were similar for residents of rural and urban areas. Population-based death rates were higher in rural areas than urban areas for severe chronic cardiovascular disease and severe acute cardiovascular

disease (23 percent and 17 percent higher, respectively), but for circulatory disease (low risk), rural rates were 22 percent lower than urban rates.

In Table 5, data are shown by region. The ne West for all categories combined and for lisease (low risk). The South tended to have astrointestinal disease (16.92 discharges per atastrophies (high risk), severe injury (high Central Region versus 2.56 in the Northeast ne highest discharge rates. The differences ischarge rates were lowest for residents in lischarges per 1,000 enrollees in the North ,000 enrollees in the West versus 24.33 in ate by region ranged from 6.2 percent for etween the lowest and highest discharge onditions (low risk), and gynecological isk), cutaneous and musculoskeletal gastrointestinal catastrophies (2.41 nost of the individual categories. exceptions were gastrointestinal ind West) to 43.8 percent for ne South).

did. The variation ranged from a 3.7-percent Neither the 30-day post-admission deaths across regions than the high-risk conditions deaths, the low-risk conditions varied more for circulatory disease (27.4 post-admission difference between lowest and highest rates post-admission deaths per 1,000 discharges neuropsychiatric and sensory disease (16.0 deaths in the Northeast versus 28.4 in the in the Northeast versus 22.9 in the West). post-admission death rates or population The West Region was notably below the per 1,000 discharges nor the population death rates. For 30-day post-admission West) to a 43.1-percent difference for differences. No single region had the national average in population-based najority of highest or lowest 30-day death rates had consistent regional

aged Medicare enrollees and total deaths per 1,000 aged persons for selected high-risk and Table 4. Short-stay hospital discharges and post-admission deaths per 1,000 discharges for low-risk diagnostic categories, by metropolitan or rural counties: United States, 1986

		Discharges per 1.000	s _	30-day	30-day post-admission deaths per	nission	12 -	Total deaths per 1.000	S
	-uou	non-HMO enrollees	seelle	1,00	1,000 discharges	.des		persons	
	United	Metro-		United	Metro-		United	Metro-	
Diagnostic category	States	politan	Rural	States	politan	Rural	States	politan	Rural
All diagnostic categories	327.09	316.97	353.58	9.62	81.1	76.3	51.02	51.34	50.73
Subtotal	199.35	192.12	218.51	1	1	1	32.30	32.45	31.81
High-risk conditions									
Severe chronic cardiovascular disease	18.72	18.38	19.63	145.9	144.8	148.6	1.75	1.66	2.05
Pulmonary disease	17.84	16.21	22.05	180.3	187.9	165.7	2.50	2.49	2.51
Cancer	13.21	13.39	12.73	256.8	255.8	259.6	6.58	6.70	6.25
Severe acute cardiovascular disease	13.11	12.54	14.57	269.3	269.7	268.2	8.92	8.53	96.6
Metabolic and electrolyte disorders	5.81	5.62	6.33	171.8	179.1	155.0	0.31	0.31	0.30
Infectious disease	3.59	3.64	3.47	263.7	268.7	250.3	0.57	0.61	0.48
Gastrointestinal catastrophies	2.48	2.51	2.37	246.3	246.2	246.7	0.67	0.69	0.62
Renal disease	1.37	1.27	1.62	335.3	324.7	356.4	0.56	0.55	0.60
Severe injury	0.55	0.55	0.55	216.7	223.4	199.1	1	I	Ì
Low-risk conditions									
Circulatory disease	43.22	41.35	48.13	27.7	28.0	27.1	8.48	9.05	7.03
Cutaneous and musculoskeletal conditions	27.24	26.35	29.60	20.5	21.0	19.1	98.0	0.82	96.0
Gastrointestinal disease	21.51	19.99	25.49	26.8	27.3	25.6	0.33	0.33	0.34
Urologic disease	12.62	12.09	13.97	17.2	16.7	18.2	0.14	0.13	0.16
Neuropsychiatric and sensory disease	14.18	14.49	13.37	19.4	19.1	20.1	0.58	0.60	0.52
Gynecological disease (female only)	3.98	3.74	4.63	5.5	5.3	2.7	0.01	0.01	0.01

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census

mortality (total deaths per 1,000 persons) for all conditions combined. Particularly noteworthy was the population death rate for severe acute cardiovascular disease, for which mortality was 28 percent lower in the West than in the next lowest region (North Central).

It has been hypothesized that areas with high discharge rates may have a less severe case mix and, conversely, areas with low discharge rates may have a more severe case mix. If this hypothesis holds, there should be a negative correlation between discharge

rates and hospital-related mortality (i.e., 30-day post-admission deaths per 1,000 discharges). Additionally, it is reasonable to hypothesize that discharge rates should reflect relative need for care. Thus, one would expect that hospitalization for a given condition, such as heart disease, should be higher in areas with higher population death rates from heart disease.

The relationship between volume of hospitalization and mortality rates is shown in Table 6. The correlations are shown between the number of discharges per 1,000

enrollees and both the 30-day post-admission deaths per 1,000 discharges and the total deaths per 1,000 persons. The correlations were calculated using rates for MSAs and rural areas. Both hypotheses are supported somewhat by the data. In 8 of the 15 conditions, the correlation between discharges per 1,000 enrollees and 30-day post-admission deaths per 1,000 discharges was negative and statistically significant. In two cases, the correlation coefficient was positive, although not statistically significant.

It can also be seen from Table 6 that discharge rates are positively related to overall death rates. In eight of the nine high-risk conditions, there was a statistically significant and positive correlation between discharges per 1,000 enrollees and the overall death rate per 1,000 persons for that condition. The fact that the correlations for low-risk conditions were not significant is also important. Death (either hospital related or on a population basis) is rarely caused by these conditions. Therefore, it is unlikely that overall mortality would serve as a useful measure of hospitalization need for patients with these conditions.

In summary, the tables in this volume on the 15 high- and low-risk conditions contain basic discharge rates and mortality rates for those conditions included in the hospital-specific mortality data release (Health Care Financing Administration, 1987, 1988). It is expected that the display of information by age, sex, race, and geographic area can serve as the basis for generating a variety of hypotheses about the use and outcomes of care.

aged Medicare enrollees and total deaths per 1,000 aged persons for selected high-risk and Table 5. Short-stay hospital discharges and post-admission deaths per 1,000 discharges for low-risk diagnostic categories, by census region: United States, 1986

)	1)								•
		Disch	Discharges		30	30-day post-admission	-admissi	2		Total	Total deaths		Ω
		Der	ner 1 000			deaths ne	Sper			ner 1 000	000		
	_	non-HMO enrollees	enrollee	S		1,000 discharges	charges			pers	persons		
Diagnostic category	North- east	North Central	South	West	North- east	North Central	South	West	North- east	North	South	West	
All diagnostic categories	315.00	333.07	348.51	292.36	80.9	79.5	78.7	80.2	53.18	51.86	51.17	47.59	1
High-risk conditions Severe chronic													ΞŎ
cardiovascular disease	19.61+	19.71+	18.91	15.59 –	140.9 –	150.1+	147.3	143.1	1.54 –	1.89+	2.01+	1.42 -	<u>a</u> (
Pulmonary disease	15.69 -		20.31 +		182.5	178.2	177.8	187.3+		2.48	2.37 -	2.52	<u>ن</u> ن
Severe acute	-				5	0.00	1	12013			8	20.0	Σ
disease	13.58+	13.49+	13.35+	11.39 –	259.1 -	275.8+	272.4	266.8	9.73+	9.21+	9.37+	6.63 –	_
Metabolic and electrolyte disorders	5.31	5.82	6.62+	4.92	182.0+	165.9 -	170.2	171.4	0.31	0.32	0.32	0.26 –	<u> </u>
Infectious disease	3.36 -	3.66	3.90+			251.3-	271.4+	256.1	0.74+		0.63+	0.34 -	Ϋ́O
catastrophies	2.56	2.41	2.42	2.56	243.7	251.5	243.0	248.6	0.72+	0.65	0.64 -	69.0	ב
Renal disease	1.28 -	1.37	1.54+	1.12-	317.4 -	344.2	339.7	334.1	0.63+	0.58	0.61+	0.39 -	Ö
Severe Injury	0.00		+ BC.O		0.422	N 5.	700.	230.0	I	I	I	I	Ō
Low-risk conditions Circulatory disease	40.95 –	43.58+	47.55+	37.22 -	27.4	27.9	27.5	28.4	10.22+	9.01+	6.93 –	8.32-	שׁ בֹ
cutaneous and musculoskeletal													Ž
conditions Gastrointestinal	25.14 -	29.50+	27.25	26.69	20.7	20.0	20.5	20.8	0.80	0.84	0.93+	0.83	Ű
disease	20.07			16.92	26.7	27.0	25.9	28.9+	0.34	0.32	0.33	0.35	١,
Orologic disease Neuropsychiatric and	- /5.11	12.82+	14.20+	10.94 -	15.3	0.0	18.5+	16.9	- 11.0	0.13	0.16+	41.0	- :
sensory disease	16.39+	14.81+	13.53 -	11.45-	16.0-	19.8	20.4	22.9+	0.51 -	0.58	0.55 -	+ 69.0	ž ē
Gynecological disease (female only)	3.30 -	4.10	4.29+	4.13	5.2	5.7	5.9	4.5	0.01	0.01	0.01	0.02+	5 0
NOTES: Only aged Medicare enrollees who did not have end stade renal disease and were not members of health maintenance	are enrolle	b own sec	id not hav	e end stage	e renal dis	ease and	were not r	nembers	of health	maintena	nce		Σ

NOTES: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included in Medicare data. All rates are indirectly standardized for age and sex. A (+) or (-) indicates that the rate is significantly greater or less than the U.S. rate (p < .01) SOURCES: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. Population death rates derived from Public Health Service, National Center for Health Statistics (deaths) and U.S. Bureau of the Census (population).

References

Health Care Financing Administration: Medicare Pub. No. 01-002. Health Standards and Quality Bureau. Washington. U.S. Government Printing Hospital Mortality Information, 1986. HCFA Office, 1987.

Pub. Nos. 00640-00646. Health Standards and Quality Bureau. Washington. U.S. Government Hospital Mortality Information, 1987. HCFA

Health Care Financing Administration: Medicare Printing Office, 1988.

hospital discharges per 1,000 aged Medicare by diagnostic category: United States, 1986 enrollees and death rates for aged persons, Table 6. Correlations between short-stay

Correlation between discharge rate and:

	30-day post-	Total deaths
	admission	per 1,000
	deaths per	aged
Diagnostic category	1,000 discharges	persons
High-risk conditions		
Severe chronic		
cardiovascular disease	-0.10	10.34
Pulmonary disease	1 - 0.17	10.22
Cancer	1 – 0.26	10.48
Severe acute cardiovascular		
disease	1 - 0.14	10.51
Metabolic and electrolyte		
disorders	- 0.08	10.23
Infectious disease	0.11	10.34
Gastrointestinal catastrophies	1 - 0.15	10.41
Renal disease	-0.03	10.43
Severe injury	- 0.08	-0.11
Low-risk conditions		
Circulatory disease	1 - 0.25	0.03
Cutaneous and		
musculoskeletal conditions	1 – 0.18	0.05
Gastrointestinal disease	1 – 0.21	0.05
Urologic disease	0.10	0.13
Neuropsychiatric and sensory		
disease	1 - 0.19	0.09
Gynecological disease		
(female only)	-0.07	-0.05
1 Court to the confidence of an incidence of	lovel to	

Correlation is significant at the p < = .01 level.

NOTE: Only aged Medicare enrollees who did not have end stage enal disease and were not members of health maintenance rganizations are included in Medicare data.

System. Population death rates derived from Public Health Service, SOURCES: Health Care Financing Administration, Bureau of Data National Center for Health Statistics (deaths) and U.S. Bureau of Management and Strategy: Data from the Medicare Statistical he Census (population).

Appendix A. Statistical note

Reliability of estimates and testing for significant differences

Introduction

In this compilation of data, diagnosticand procedure-specific discharge and mortality rates are shown, a large number of which are for relatively small areas. As a result, the numbers of discharges, deaths, and enrollees used in the numerators and denominators to calculate the rates can be quite small. Small numbers in the numerator, denominator, or both increase the likelihood that unusually high or low rates will occur merely by chance.

The observed rates are true rates in the sense that they are based on 100 percent of the 1986 enrollees and discharges. That is, they are not estimated from a sample and, thus, are not subject to sampling error in the usual sense. Nevertheless, the rates are random variables, and each observed value is one of many possible values that might have occurred for reasons that can only be attributed to chance. Thus, an unusually high 1986 death rate, for example, may be a chance aberration and not indicative of what the rate in that area would be over a period of years. Variation over time will be discussed later in this section.

Two aids are provided to assist the user in identifying rates that may deviate to an important degree from the norm with small probability that the deviation results from

chance. The first aid is a presentation of approximate standard error formulas and tables that will allow users to assess the reliability of any given rate. The second aid involves testing each area rate against the U.S. rate and annotating area rates that are significantly different. With both aids, the rates are treated as though they are estimates based on a sample of enrollees or discharges.

Standard error tables and formulas

shown in Table A-1. The standard error is a relative standard errors than large rates. The Standard errors for 30-day post-admission required of an estimate depends on how the rate. For a given base, small rates will have obtained by dividing the absolute standard function of both the magnitude of the rate smaller absolute standard errors but larger estimate is used. However, we recommend error by the rate. The degree of reliability post-admission deaths per 1,000 enrollees, discharges or enrollees in the base of the Table A-1. The relative standard error is and total deaths per 1,000 enrollees are caution in using estimates with relative standard errors of more than 25 or 30 and the magnitude of the number of absolute standard error is shown in deaths per 1,000 discharges, 30-day

Linear interpolation should provide a reasonable approximation of standard errors for rates and/or bases not shown in Table A-1. If more accuracy is desired, the

following formula can be used to calculate the absolute standard error:

$$SE = \sqrt{R(1,000 - R)/N},$$

where R is the rate for which the standard error is desired and N is the number of discharges or enrollees in the base of the

In Table A-2, approximate standard errors for discharges per 1,000 enrollees are given. The table can be read and interpreted similarly to Table A-1. However, to reduce the number of tables and different formulas needed, the formula used to calculate these standard errors contains two approximations, which means that applying them to specific estimates also results in approximate standard errors. The formula and the approximations are described here. Hansen, Hurwitz, and Madow (1953) give a detailed explanation of these approximations

$$SE = \sqrt{R^2(0.4502 + Q)/PN}$$

where R = the rate for which the standard error is desired; 0.4502 = the coefficient of variation (CV) of discharges for persons with one or more discharges (the first approximation); N = the number of enrollees in the base of the rate; P = the proportion of enrollees with at least one discharge (the second approximation); and Q = 1 - P.

The CV was calculated for all 1986 discharges in the United States regardless of diagnosis or procedure. This is an approximation because different conditions and/or areas are likely to be associated with different patterns of multiple hospitalizations and are, thus, likely to have

different CVs. However, to keep the table of each condition would have a distribution of for all conditions. P is an approximation of the proportion of enrollees with at least one standard errors simple, it was assumed that hospitalizations similar to the distribution conditions and then dividing this result by discharge and is derived by estimating the the number of enrollees in the base of the different conditions and areas are likely to have average numbers of discharges per number of persons with at least one discharge by dividing the number of discharges by the average number of discharges per enrollee (1.55) for all rate. P is an approximation because enrollee different from 1.55.

The extent of error introduced by these approximations is unknown. The user is therefore cautioned to treat the formula and tabled values as approximations of the standard errors for specific rates.

Standard errors and time-dependent variation

However, some temporal sources of variation Standard errors are usually interpreted as measures of sampling error. However, when are not reflected in the standard error when taken under circumstances that can only be viewed as a measure of the variation in the attributed to chance. To the extent that the environment, the standard error could also it is based on only 1 year of data. Periodic many possible values the rates might have influenza epidemics are an example. Also, rates are generated in a temporally stable dealing with 100-percent data, as in this compilation, the standard error can be be used as a measure of the expected variation in rates from year to year.

the standard error, as calculated here, will not adequately reflect variations resulting from trends, such as a declining death rate.

Comparison of area rates with U.S. rates

evel. (A significance level of .01 means that, low while taking into account the element of unusually high or low, but the lack of a sign the user rates that may be unusually high or significantly higher than the U.S. rate. The chance. Rates without a sign could also be drawn from two populations with identical intent of this annotation is to highlight for minus sign are significantly lower than the is intended to serve as a warning of a high if samples of the same size are repeatedly when the difference between the area rate difference will be incorrectly declared in 1 Area rates shown in Tables 2 and 3 for and the U.S. rate is significant at the .01 totals and for each of the 26 diagnostic categories have been annotated to show out of every 100 samples.) Rates with a U.S. rate, and rates with a plus sign are sample is performed, then a significant rates and the significance test for each standard error.

For each comparison, a normal theory test for the difference between two rates with a critical value of 2.575 was used. This approach means that for every 100 comparisons made, one erroneously declared significant difference can be expected (a type I error). Given the thousands of comparisons made in this data compilation, one can expect that many such errors have been made. On the other hand, more conservative alternative approaches, such as the Bonferroni multiple comparison test, would place greater overall control on the

type I error at the expense of decreasing the power to detect differences that may, in fact, be real (a type II error). The compromise between committing the two types of errors has been to use a significance level of .01 instead of the usual .05. It was assumed that this would be appropriate for its intended purpose as a screening device to identify rates that may be unusually high or low for reasons other than chance variation.

The following formula was used to carry out the tests and may be employed by users for any other comparisons between two rates:

$$z = (R_1 - R_2)/\sqrt{SE_1^2 + SE_2^2},$$

where R_1 and R_2 are the two rates being compared, and SE_1 and SE_2 are their respective standard errors, as defined earlier in this section. If z exceeded 2.575 (or was less than -2.575), then the rate being tested was annotated. This formula assumes that any covariance resulting from the fact that metropolitan statistical areas (MSAs) and rural areas are subareas of the United States is negligible.

Description of boxplots

alling beyond the whiskers are shown as

The boxplots presented in this report are a graphical representation of the distribution of rates across MSAs and rural areas.

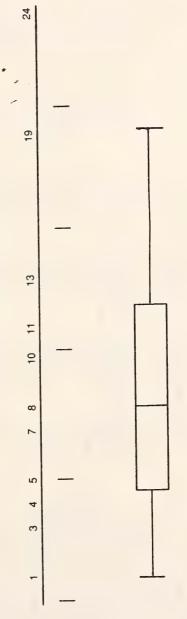
Boxplots enable a reader to readily grasp the geographic variation in the rate being examined, to compare the median and spread of a given rate across census divisions, and to identify outlying areas. Each graph has 10 boxplots, 1 for the United States (excluding outlying territories) and 1 for each of the 9 census divisions. The U.S. boxplot is derived from the data for 365 MSAs and rural areas. The number of areas comprising the division boxplots is shown in Table A-3.

The length of the rectangular (or box) portion of the boxplot is approximately the interquartile range. It extends from about the 25th percentile (the first quartile) to the 75th percentile (the third quartile). (The actual calculations made for boxplots are

compilation.) The vertical line that is usually median value. The horizontal lines extending the box to the last point that is not less than the left whisker extends from the left end of "whiskers." Some notation will be useful to right whisker extends from the right side of show how their length is determined. Let d Thus, the terms quartile and interquartile quartile, i.e., the length of the box. Then the first quartile minus 1.5 times d. The exceed the third quartile plus 1.5 times d. from each end of the rectangle are called Short vertical lines simply emphasize the terminal points of both whiskers. Values extensively as a reference in creating and ocated near the center of the box is the calculations made to find the quartiles. equal the third quartile minus the first the box to the last point that does not nterpreting the boxplots for this data range are only approximate. Hoaglin, Mosteller, and Tukey (1983) was used similar to, but not identical to, the

extends to the smallest value, which is 1. For of 19, which is where the right whisker ends. 11,13,19,24), ranging from 1 to 24, are used extreme, which falls at the value 12. To find observation not exceeding 23.25 has a value box is in the middle of the third and fourth is at location (11+1)/2=6, or the value of to illustrate these calculations. The median the sixth observation from either end. This box is calculated from the median location values, which, with interpolation, is found value is 8. The location of the ends of the the right side, 12 + 11.25 = 23.25. The last from either end. Thus, the left end of the as follows: (6+1)/2 = 3.5 observations in the length of the whiskers, first calculate hypothetical data points (1,3,4,5,7,8,10, 1.5d, i.e., 1.5(12-4.5) = 11.25. Because located 3.5 observations from the upper 4.5 - 11.25 is negative, the left whisker to be 4.5. The right end of the box is individual points. In Figure A-1, 11

Figure A-1. Example of boxplots:



The highest value, 24, is shown at a point beyond the right whisker.

There are four characteristics of the distribution of MSA and rural rates that are readily observed from boxplots: the median, the location and spread of the central 50 percent of observations, the overall spread as indicated by the length of the whiskers and the remoteness of the outlying points, and the symmetry of the distribution as indicated by the location of the median within the box, the relative lengths of the left and right whiskers, and the left and right balance of outlying points.

the whiskers, that is, 2.7 standard deviations the 365 areas in the U.S. boxplots were from It should be noted, however, that no attempt expected values for normal distributions may the number of expected outlying points in a Mosteller, and Tukey, 1983). For example, if a normal distribution, one would expect, on has been made to determine whether any of average of 0.55 observations on either side. distributed samples, about 0.35 percent of whiskers. For New England, with 21 areas, the observations would lie outside each of observations may be aided by considering normal. Thus, outlying points that exceed normal distribution. For large, normally somewhat larger for the smaller samples used in this data compilation (Hoaglin, from the mean. This percent would be the percent would be about 2.6, or an observations beyond each end of the the actual distributions appear to be An understanding of the outlying average, about 0.4 percent, or 1.5 not be true outliers for the actual

References

Hansen, M.H., Hurwitz, W.N., and Madow, W.G.: Sample Survey Methods and Theory. Vol. I. New York. John Wiley and Sons, Inc., 1953.

Hoaglin, D.C., Mosteller, F., and Tukey, J.W.: Understanding Robust and Exploratory Data Analysis. New York. John Wiley and Sons, Inc.,

Table A-1. Absolute standard errors for deaths per 1,000 discharges or per 1,000 enrollees

Discharge or				Deaths	Deaths per 1,000 discharges or per 1,000 enrollees	es or per 1,000 e	nrollees			
enrollees in base	0.1	0.2	0.3	0.4	0.5	9.0	0.7	0.8	6:0	1.0
					Standard error	d error				
1,000										0.999
2,000					0.500	0.548	0.591	0.632	0.671	0.707
3,000				0.365	0.408	0.447	0.483	0.516	0.547	0.577
4,000			0.274	0.316	0.353	0.387	0.418	0.447	0.474	0.500
5,000		0.200	0.245	0.283	0.316	0.346	0.374	0.400	0.424	0.447
000'9		0.183	0.224	0.258	0.289	0.316	0.341	0.365	0.387	0.408
7,000		0.169	0.207	0.239	0.267	0.293	0.316	0.338	0.358	0.378
8,000		0.158	0.194	0.224	0.250	0.274	0.296	0.316	0.335	0.353
000'6		0.149	0.183	0.211	0.236	0.258	0.279	0.298	0.316	0.333
10,000	0.100	0.141	0.173	0.200	0.224	0.245	0.264	0.283	0.300	0.316
20,000	0.071	0.100	0.122	0.141	0.158	0.173	0.187	0.200	0.212	0.223
30,000	0.058	0.082	0.100	0.115	0.129	0.141	0.153	0.163	0.173	0.182
40,000	0.050	0.071	0.087	0.100	0.112	0.122	0.132	0.141	0.150	0.158
50,000	0.045	0.063	0.077	0.089	0.100	0.110	0.118	0.126	0.134	0.141
000'09	0.041	0.058	0.071	0.082	0.091	0.100	0.108	0.115	0.122	0.129
70,000	0.038	0.053	0.065	0.076	0.084	0.093	0.100	0.107	0.113	0.119
80,000	0.035	0.050	0.061	0.071	0.079	0.087	0.094	0.100	0.106	0.112
000,06	0.033	0.047	0.058	0.067	0.075	0.082	0.088	0.094	0.100	0.105
100,000	0.032	0.045	0.055	0.063	0.071	0.077	0.084	0.089	0.095	0.100
200,000	0.022	0.032	0.039	0.045	0.050	0.055	0.059	0.063	0.067	0.071
300,000	0.018	0.026	0.032	0.037	0.041	0.045	0.048	0.052	0.055	0.058
400,000	0.016	0.022	0.027	0.032	0.035	0.039	0.042	0.045	0.047	0.050
200,000	0.014	0.020	0.024	0.028	0.032	0.035	0.037	0.040	0.042	0.045
000,000	0.013	0.018	0.022	0.026	0.029	0.032	0.034	0.037	0.039	0.041
200,000	0.012	0.017	0.021	0.024	0.027	0.029	0.032	0.034	0.036	0.038
800,000	0.011	0.016	0.019	0.022	0.025	0.027	0.030	0.032	0.034	0.035
000,006	0.011	0.015	0.018	0.021	0.024	0.026	0.028	0.030	0.032	0.033
1,000,000	0.010	0.014	0.017	0.020	0.022	0.024	0.026	0.028	0.030	0.032
2,000,000	0.007	0.010	0.012	0.014	0.016	0.017	0.019	0.020	0.021	0.022
3,000,000	0.006	0.008	0.010	0.012	0.013	0.014	0.015	0.016	710.0	9.00
4,000,000	0.005	0.007	0.009	0.010	0.011	0.012	0.013	0.014	0.015	0.016
5,000,000	0.004	0.006	0.008	0.00	0.010	0.011	0.012	0.013	0.013	0.014
6,000,000	0.004	0.006	0.007	0.008	0.000	0.010	0.011	0.012	0.012	0.013
000,000,	0.004	0.005	0.007	0.008	0.008	0.009	0.010	0.01	0.01	20.0
8,000,000	0.004	0.005	9000	0.007	0.008	0.009	0.009	0.010	110.0	110.0
000'000'6	0.003	0.005	900'0	0.007	0.007	0.008	600.0	0.009	0.010	0.011
10,000,000	0.003	0.004	0.005	90.00	0.007	0.008	0.008	0.009	0.009	0.010
20,000,000	0.002	0.003	0.004	0.004	0.005	0.005	0.006	900.0	0.007	0.007
30,000,000	0.002	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.005	900.0

Table A-1. Absolute standard errors for deaths per 1,000 discharges or per 1,000 enrollees—Continued

	10	0900	7.036	5.745	4.450	4.062	3.761	3.518	3.317	3.146	2.225	1.817	1.573	1.285	1.189	1.112	1.049	0.704	0.574	0.497	0.445	0.406	0.352	0.332	0.315	0.182	0.157	0.141	0.119	0.111	0.105	0.070	0.057	0.044	0.041	0.038	0.033	0.031	0.022
	6		6.678	5.453	4.224	3 856	3.570	3.339	3.148	2.986	2.112	1.724	1.493	1.336	1.129	1.056	0.995	0.944	0.545	0.472	0.422	0.386	0.334	0.315	0.299	0.172	0.149	0.134	0.113	0.106	0.100	0.067	0.055	0.042	0.039	0.036	0.033	0.030	0.021
	8		6.299	5.143	3.984	3 637	3.367	3.150	2.969	2.817	1.992	1.626	1.409	1.260	1.065	966.0	0.939	0.630	0.514	0.445	0.398	0.364 0.337	0.315	0.297	0.282	0.163	0.141	0.126	0.106	0.100	0.094	0.063	0.051	0.040	0.036	0.034	0.030	0.028	0.020
rollees	7		5.895	4.814	3.729	3 404		2.948	2.779	2.636	1.864	1.522	1.318	1.076	966.0	0.932	0.879	0.590	0.481	0.417	0.373	0.340 0.315	0.295	0.278	0.264	0.152	0.132	0.118	0.100	0.093	0.088	0.059	0.048	0.037	0.034	0.032	0.029 0.028	0.026	0.019
Deaths per 1,000 discharges or per 1,000 enrollees	9	d error	5.461	4.459	3.454	2 152	2.919	2.730	2.574	2.442	1.727	1.410	1.221	1.092 0.997	0.923	0.863	0.814	0.772	0.446	0.386	0.345	0.315 0.292	0.273	0.257	0.244	0.141	0.122	0.109	0.092	0.086	0.081	0.055	0.045	0.035	0.032	0.029	0.027 0.026	0.024	0.017
er 1.000 dischard	5	Standard error	4.987	4.072	3.154	0 880	2.666	2.494	2.351	2.230	1.577	1.288	1.115	0.997	0.843	0.789	0.743	0.705 0.499	0.407	0.353	0.315	0.288	0.249	0.235	0.223	0.129	0.112	0.100	0.084	0.079	0.074	0.050	0.041	0.032	0.029	0.027	0.025	0.022	0.016
	4			3.644	2.823	2 677	2.386	2.232	2.104	1.996	1.411	1.152	0.998	0.893 0.815	0.754	0.706	0.665	0.631 0.446	0.364	0.316	0.282	0.258	0.223	0.210	0.200	0.115	0.100	0.089	0.075	0.071	0.067	0.045	0.036	0.028	0.026	0.024	0.022	0.020	0.014
	3			1700	2.733	0000	2.067	1.934	1.823	1.729	1.223	0.998	0.865	0.773	0.654	0.611	0.576	0.547	0.316	0.273	0.245	0.223 0.207	0.193		0.173		0.086	0.077	0.065	0.061	0.058	0.039	0.032	0.024	0.022	0.021	0.019 0.018	0.017	0.012
	2				1 998	200:1 100:1	1.689	1.580	1.489	1.413	0.999	0.816	0.706	0.632	0.534	0.499	0.471	0.316	0.258	0.223	0.200	0.182 0.169	0.158	0.149	0.141	0.082	0.071	0.063	0.053	0.050	0.047	0.032	0.026	0.020	0.018	0.017	0.016	0.014	0.010
	-									0.999	0.707	0.577	0.500	0.447	0.378	0.353	0.333	0.316	0.182	0.158	0.141	0.129 0.119	0.112	0.105	0.100	0.058	0.050	0.045	0.038	0.035	0.033	0.022	0.018	0.014	0.013	0.012	0.01	0.010	0.007
Dischorage or	enrollees in base	C	200	300	005	600	200	800	006	1,000	2,000	3,000	4,000	6,000 6,000	7,000	8,000	000'6	20,000	30,000	40,000	50,000	60,000 70,000	80,000	000'06	100,000 200,000	300,000	400,000	500,000	200,007	800,000	900,000	2,000,000	3,000,000	5.000,000	6,000,000	7,000,000	9,000,000 9,000,000	10,000,000	20,000,000

Table A-1. Absolute standard errors for deaths per 1,000 discharges or per 1,000 enrollees—Continued

26 972 9377 93771 46.394 46.895 96.896 96.896 97.299 98.371 46.395 96.996 99.371 46.399 46.399 96.39	1	00	00	Deaths	Deaths per 1,000 discharges or per 1,000 enrollees	ges or per 1,000	enrollees	o c	S.C.	100
Standard orror Standar Standard orror		20	30	40	20	90	9	80	90	001
26.972 35.771 48.734 57.063 46.833 46.934 45.249 46.934<					Standa	rd error				
28.972 38.774 38.774 45.389 46.589 36.694 46.589 36.946 46.589 36.949 36.946 46.589 36.949 36.946 46.589 36.949 36.946 46.589 36.949 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946 36.946<					A9 79A	59 104	E7 0E3	699 09	60000	94.868
28.972 30.347 34.789 37.550 40.202<				777 30	40.734	43.550	37.033	40.003	60.992	547.72
24,175 27,24 30,882 35,866 36,082 36,048 36,082 36,048 36,082 36,048 </td <td></td> <td></td> <td>26 072</td> <td>30.084</td> <td>34.460</td> <td>43.339 37.550</td> <td>40.303</td> <td>49.331 42 805</td> <td>05.249 AF 240</td> <td>A7 A3A</td>			26 072	30.084	34.460	43.339 37.550	40.303	49.331 42 805	05.249 AF 240	A7 A3A
2.2.023 2.5.29B 2.8.137 30.669 32.239 36.024 36.946 19.072 2.3.422 2.6.049 2.8.345 2.4.68 36.246 34.246 36.946 19.072 2.3.422 2.6.049 2.2.973 2.6.56 2.4.68 30.331 31.966 17.059 1.9.566 2.2.973 2.5.032 2.6.856 27.99 26.818 17.069 1.9.566 2.2.973 2.5.618 27.199 20.381 12.062 1.9.566 1.3.14 1.5.84 1.2.771 1.5.63 30.166 12.062 1.3.44 1.2.582 1.3.711 1.4.771 1.3.663 1.5.297 30.166 6.448 1.0.06 8.0.06 1.3.771 1.4.11 1.1.796 1.6.229 1.4.106 1.2.796 1.6.229 1.4.106 1.2.796 1.6.229 2.0.166 20.236 1.0.166 1.2.997 2.0.246 20.246 20.246 20.246 20.246 20.246 20.246 20.246 20.246 20.246 </td <td></td> <td>19 799</td> <td>24.125</td> <td>27.713</td> <td>30.822</td> <td>33.586</td> <td>36.083</td> <td>38.367</td> <td>40.472</td> <td>42.426</td>		19 799	24.125	27.713	30.822	33.586	36.083	38.367	40.472	42.426
2.202 2.202 <th< td=""><td></td><td>40.074</td><td>00000</td><td>000 30</td><td>00 101</td><td>20.650</td><td>00000</td><td>25 004</td><td>26.046</td><td>007.00</td></th<>		40.074	00000	000 30	00 101	20.650	00000	25 004	26.046	007.00
1,0072 2,036 26,032 26,536 26,536 26,537 26,537 26,537 26,537 26,537 26,537 26,537 26,537 26,537 26,537 26,537 26,537 26,537 27,129 26,637 27,129 26,637 27,129 27,129 27,129 28,137 27,129 27,129 28,137 27,129 27,129 28,138 27,133 11,662 27,139 28,139 28,139 28,138 27,133 11,662 14,309 28,138 28,138 28,139 28,138 28,138 28,138 28,139 28,138 28,138 28,138 28,138 28,138 28,138 28,138 28,138 28,138 28,138 28,138 28,138 28,138 38,144 38,144 38,238 38,144 38,238 38,144 38,238 38,144 38,238 38,144 38,238 38,144 38,238 38,238 38,238 38,238 38,238 38,238 38,238 38,238 38,238 38,238 38,238 38,238 </td <td></td> <td>16.0/4</td> <td>20.023</td> <td>20.230</td> <td>20.137</td> <td>30.009</td> <td>30.406</td> <td>33.024</td> <td>34.205</td> <td>36.730</td>		16.0/4	20.023	20.230	20.137	30.009	30.406	33.024	34.205	36.730
17.381 2.636 2.734 2.636 2.637 2.636 2.637 2.636 2.637 2.636 2.637 2.637 2.636 2.637 2.637 2.637 2.636 2.637 2.637 2.637 2.636 2.637 2.637 2.637 2.637 2.636 2.648 2.648 1.641 1.677 1.666 1.626 <t< td=""><td></td><td>16.733</td><td>10.029</td><td>23.422</td><td>24.043</td><td>26.563</td><td>28.526</td><td>30.331</td><td>34 996</td><td>33.637</td></t<>		16.733	10.029	23.422	24.043	26.563	28.526	30.331	34 996	33.637
17.099 19.56 21.794 25.749 25.515 27.129 28.618 12.02 19.56 21.794 23.749 25.515 27.129 28.618 12.02 13.86 15.411 16.733 18.042 191.83 20.236 9.89 11.314 12.86 15.411 16.623 16.523 16.523 7.629 8.706 8.708 9.706 11.874 12.757 11.566 16.223 16.236 6.48 7.407 8.238 9.76 10.416 11.075 11.883 16.252 17.788 16.895 14.306 14		14 757	17 981	20.656	22 973	25.032	26.92	28.597	30.166	31,623
12.062 13.856 15.411 16.793 18.042 19.183 20.236 8.529 97.34 11.573 13.756 16.563 16.523 8.529 97.34 11.573 15.663 16.563 16.563 8.529 8.764 9.747 11.677 11.683 12.736 6.941 7.407 8.238 8.96 9.021 9.643 10.817 6.041 6.922 7.706 8.396 9.021 9.023 10.116 5.686 6.532 7.706 8.396 9.021 9.024 10.817 5.686 6.532 7.706 8.396 9.021 9.023 10.116 5.686 6.532 7.706 8.936 9.021 10.116 11.16 5.686 6.532 7.716 8.936 9.021 10.116 10.116 5.714 4.382 4.873 5.310 8.036 8.579 10.116 2.022 2.812 2.530 2.602		14.000	17.059	19.596	21.794	23.749	25.515	27.129	28.618	30.000
1,2,002 1,1314 1,2,814 1,1314 1,2,814 1,1314 1,2,814 1,1314 1,2,814 1,1314 1,2,814 1,1314 1,2,814 1,1314		0000	10.060	40 056	15 444	16 703	40 040	10 100	966 06	04 040
8.529 9.784 10.897 11.814 12.757 15.565 14.308 6.964 8.744 9.747 10.621 11.411 12.733 14.308 6.944 8.740 9.747 10.621 11.411 12.733 12.788 6.448 7.407 8.238 8.956 10.416 10.254 10.118 5.886 6.331 6.328 7.266 8.966 9.021 9.532 10.118 5.886 6.197 6.892 7.510 8.086 8.579 9.020 5.384 6.197 6.892 7.510 8.086 8.579 9.020 3.114 3.582 7.510 8.086 8.579 9.020 2.142 2.771 3.975 4.034 4.290 4.230 2.202 2.503 2.446 3.755 4.034 4.255 3.243 2.202 2.503 2.446 3.755 4.034 3.502 3.648 1.776 1.860 2.2		9.899	12.062	13.636	10.411	19.793	14 731	15.663	16 523	17 321
7.629 8.740 9.741 10.21 11.71 12.13 12.20 6.964 8.000 8.896 9.695 10.416 11.075 11.683 6.944 7.407 8.896 9.695 10.416 11.075 11.683 6.031 6.928 7.706 8.996 9.044 10.254 10.817 5.896 6.032 7.706 8.996 9.043 9.539 10.1817 5.894 6.397 7.706 8.396 9.043 9.539 10.1817 5.814 4.382 7.510 8.086 8.579 9.043 9.539 2.697 3.098 3.756 6.066 6.066 6.396 6.396 2.412 3.578 3.756 4.034 4.525 9.050 2.412 2.741 3.086 3.244 3.756 3.244 3.56 3.244 2.412 2.541 3.066 3.244 3.56 3.648 3.574 3.421 1.706		2,000	9.04 0.04 0.04	9 7 0	10 807	11.874	12.757	13.565	14 300	15,000
6,964 8,704 8,744 9,695 10,411 10,153 11,168 6,948 7,407 8,238 8,976 10,411 10,153 11,188 6,948 7,407 8,238 8,976 9,644 10,254 10,817 6,948 6,928 7,776 8,396 9,021 9,539 9,539 5,394 6,197 6,892 7,516 8,068 8,579 9,539 3,114 4,382 4,882 7,516 8,068 8,579 9,539 2,697 3,098 3,476 3,756 6,666 6,399 9,539 2,697 3,098 3,446 3,756 4,034 4,282 5,225 2,697 2,697 2,698 3,698 3,698 3,698 3,698 3,698 2,697 2,697 2,698 3,698 3,698 3,698 3,698 3,698 3,698 2,897 2,898 3,786 4,034 4,287 4,047 4,047 <td></td> <td>7.000</td> <td>0.020</td> <td>9.730</td> <td>0.037</td> <td>1000</td> <td>16.737</td> <td>10.000</td> <td>17.003</td> <td>13.000</td>		7.000	0.020	9.730	0.037	1000	16.737	10.000	17.003	13.000
6.044 7.407 8.298 9.759 1.471 1.102 1.102 6.031 6.528 7.706 8.396 9.641 10.254 10.116 5.886 6.532 7.706 8.396 9.621 9.592 10.116 5.394 6.137 6.982 7.516 8.396 9.643 9.539 10.116 5.394 6.137 6.137 6.086 6.096 6.399 10.116 3.814 4.382 7.89 4.336 4.688 8.595 9.050 3.814 4.382 4.873 5.705 6.066 6.399 10.118 2.497 2.693 3.359 3.694 3.224 4.047 4.047 2.202 2.530 2.814 3.066 3.244 4.047 4.047 2.003 2.342 2.653 2.653 3.243 3.421 4.047 1.304 1.304 1.304 1.304 1.304 1.304 4.047 1.206		6.261	6.064	6.764 0.000	9.747	10.021	10.41	11.133	11.790	13.410
6.448 7.407 8.238 8.976 9.644 10.254 10.118 6.648 6.532 7.266 7.916 8.505 9.644 10.254 10.118 5.686 6.532 7.265 7.916 8.506 9.043 9.539 3.644 4.382 4.735 5.710 8.066 6.396 9.056 3.144 3.578 3.078 4.336 4.658 4.953 5.225 2.697 3.098 3.446 3.755 4.034 4.290 4.525 2.697 2.071 3.082 3.755 4.034 4.290 4.525 2.602 2.530 2.844 3.755 4.034 4.290 4.525 2.022 2.530 2.844 3.755 4.034 4.290 4.525 2.024 1.386 1.541 3.066 3.294 3.243 3.421 2.039 2.342 2.833 3.050 3.243 3.421 1.706 1.206		0.7.0	0.904	9.000	0.030	9.093	0.1	0.0.1	000.11	147.71
6 031 6 928 7.706 8 396 9021 9.582 1018 6 034 6 928 7.706 8.396 9021 9.539 118 5 334 6 197 6.892 7.510 8.068 8.579 9.539 5 384 4.882 4.873 5.310 5.705 6.066 6.399 1.539 2 .844 4.882 3.484 4.875 4.658 4.529 9.539 2 .842 3.084 3.486 3.755 4.034 4.290 4.525 2 .842 2.771 3.082 3.359 3.608 3.243 4.525 2 .412 2.771 3.082 3.359 3.608 3.243 4.047 2 .402 2.814 3.755 4.034 4.290 4.525 5.255 2 .402 2.814 3.755 3.243 3.243 3.243 3.243 1 .507 2.814 3.755 2.689 3.243 3.421 4.047 1 .706		5.292	6.448	7.407	8.238	8.976	9.644	10.254	10.817	11.339
5,666 6,522 7,265 7,916 8,505 9,043 9,659 1 3,394 6,197 6,892 7,510 8,066 8,579 9,050 3,114 4,382 4,874 5,710 6,066 6,399 9,050 3,114 4,382 4,873 5,176 6,066 6,399 6,399 3,114 3,578 3,979 4,336 4,668 4,953 5,226 2,412 2,771 3,082 3,755 4,034 4,890 4,555 2,202 2,530 2,814 3,756 3,696 3,247 4,477 2,202 2,532 2,605 2,839 3,696 3,247 4,477 2,202 2,342 2,605 2,839 3,696 3,247 4,477 1,796 1,960 2,179 2,563 2,689 3,434 3,471 1,706 1,386 1,541 1,671 1,473 1,566 1,431 1,706 1		4.950	6.031	6.928	2.706	8.396	9.021	9.592	10.118	10.607
5.394 6.197 6.892 7.510 8.068 8.579 9.050 3.814 4.382 4.873 5.310 8.068 8.579 9.050 2.814 4.382 4.873 5.310 6.066 6.066 6.399 2.647 3.098 3.466 3.755 4.034 4.290 4.525 2.202 2.530 2.814 3.056 3.294 3.507 4.047 2.202 2.232 2.614 2.665 2.863 3.033 3.421 1.907 2.191 2.437 2.655 2.863 3.033 3.200 1.706 1.907 2.191 2.437 2.655 2.863 3.031 1.706 1.206 2.297 2.563 2.689 3.043 3.421 1.706 1.386 1.541 1.679 1.804 1.918 2.024 1.206 1.386 1.541 1.679 1.276 1.431 2.662 0.883 0.896 <		4.667	5.686	6.532	7.265	7.916	8.505	9.043	9.539	10.000
3.814 4.382 4.873 5.310 5.705 6.066 6.399 3.114 3.578 3.48 4.336 4.658 4.953 5.225 2.697 3.946 3.755 3.698 4.953 5.225 2.412 2.771 3.082 3.369 3.698 4.525 5.225 2.402 2.530 2.814 3.066 3.294 3.502 4.647 2.202 2.530 2.814 3.066 3.294 3.502 4.647 2.039 2.342 2.695 2.863 3.043 4.047 1.307 2.191 2.437 2.503 2.863 3.043 1.706 1.960 2.297 2.503 2.860 3.017 1.206 1.361 1.371 1.473 1.566 1.652 1.206 1.361 1.371 1.473 1.566 1.431 1.206 1.371 1.473 1.566 1.431 0.863 0.860 0.		4.427	5.394	6.197	6.892	7.510	8.068	8.579	9.050	9.487
3.114 3.578 3.979 4.336 4.668 4.953 5.225 2.697 3.098 3.755 4.034 4.290 4.525 2.412 2.771 3.082 3.359 3.608 3.502 4.625 2.202 2.530 2.814 3.065 3.294 4.290 4.525 2.039 2.342 2.605 2.839 3.050 3.243 4.047 2.039 2.342 2.665 2.893 3.050 3.243 4.047 1.3907 2.191 2.437 2.655 2.863 3.033 3.200 1.706 1.960 2.179 2.503 2.689 3.033 3.017 1.706 1.386 1.541 1.679 1.804 1.918 2.024 1.206 1.386 1.541 1.679 1.473 1.666 3.017 0.845 0.890 0.990 1.669 0.994 1.042 1.168 1.168 0.659 0.741		3.130	3.814	4.382	4.873	5.310	5.705	990'9	6.399	6.708
2.697 3.098 3.446 3.755 4.034 4.290 4.525 2.412 2.771 3.082 3.359 3.608 3.837 4.047 2.022 2.530 2.814 3.066 3.837 4.047 2.039 2.342 2.665 2.863 3.603 3.421 1.907 2.191 2.437 2.655 2.863 3.033 3.200 1.706 1.360 2.297 2.503 2.869 2.860 3.017 1.706 1.360 2.297 2.563 2.863 2.860 3.017 1.706 1.360 1.371 1.473 1.586 1.622 1.706 1.361 1.473 1.586 1.431 1.706 1.690 1.187 1.276 1.586 1.431 0.853 0.800 0.890 0.975 1.042 1.108 1.188 0.603 0.760 0.890 0.771 0.840 0.954 1.012 0		2.556	3.114	3.578	3.979	4.336	4.658	4.953	5.225	5.477
2.412 2.771 3.082 3.569 3.608 3.837 4.047 2.202 2.530 2.814 3.066 3.294 3.502 3.695 2.003 2.342 2.605 2.839 3.606 3.294 3.502 3.695 2.003 2.342 2.605 2.839 3.695 3.243 3.695 1.907 2.191 2.437 2.655 2.863 3.033 3.201 1.706 1.960 2.179 2.555 2.869 3.017 1.706 1.960 2.179 2.375 2.651 2.713 2.862 0.987 1.679 1.679 1.679 1.918 2.024 3.017 0.763 0.980 1.090 1.187 1.276 1.566 1.652 0.763 0.980 0.975 1.042 1.168 1.168 0.764 0.741 0.840 0.975 1.042 1.168 1.168 0.603 0.620 0.890 <		2.214	2.697	3.098	3.446	3.755	4.034	4.290	4.525	4.743
2.202 2.530 2.814 3.066 3.294 3.502 3.695 2.039 2.342 2.605 2.839 3.050 3.243 3.421 1.907 2.191 2.437 2.655 2.863 2.860 3.243 1.706 1.960 2.197 2.655 2.863 2.860 3.017 1.706 1.386 1.541 1.679 1.804 1.918 2.024 1.206 1.386 1.541 1.679 1.804 1.918 2.024 0.885 0.986 0.975 1.804 1.918 2.024 0.887 0.876 1.371 1.473 1.566 1.652 0.887 0.876 1.042 1.918 1.143 1.286 0.686 0.800 0.975 1.042 1.108 1.168 0.645 0.741 0.824 0.898 0.964 1.025 1.082 0.648 0.649 0.620 0.689 0.771 0.840 <		1.980	2.412	2.771	3.082	3,359	3.608	3.837	4.047	4.243
2.039 2.342 2.655 2.839 3.050 3.243 3.421 1.907 2.191 2.437 2.655 2.863 3.033 3.200 1.708 2.066 2.297 2.503 2.689 2.860 3.017 1.706 1.960 2.179 2.503 2.689 2.860 3.017 1.706 1.960 2.179 2.503 2.689 2.860 3.017 1.706 1.366 1.541 1.679 1.804 1.918 2.024 0.985 0.980 1.090 1.187 1.276 1.652 1.652 0.763 0.870 0.975 1.062 1.141 1.213 1.280 0.645 0.800 0.970 1.042 1.108 1.168 0.645 0.741 0.824 0.896 0.964 1.025 1.012 0.659 0.650 0.650 0.751 0.807 0.964 1.018 0.650 0.650 0.689 <		1.807	2.202	2.530	2.814	3.066	3.294	3.502	3.695	3.873
1,907 2,191 2,437 2,655 2,863 3.033 3.200 1,706 2,066 2,297 2,563 2,689 2,860 3.017 1,706 1,360 1,741 1,275 1,804 1,918 2,024 1,706 1,386 1,541 1,679 1,804 1,918 2,024 1,206 1,386 1,541 1,679 1,804 1,918 2,024 0,853 0,890 0,975 1,062 1,141 1,213 1,280 0,645 0,890 0,975 1,062 1,148 1,280 1,168 0,645 0,890 0,870 0,894 0,964 1,062 1,168 0,645 0,741 0,894 0,894 0,964 1,012 1,082 0,645 0,674 0,894 0,894 0,964 1,012 1,012 0,539 0,620 0,689 0,751 0,897 0,994 0,994 0,31 0,348 <t< td=""><td></td><td>1.673</td><td>2.039</td><td>2.342</td><td>2.605</td><td>2.839</td><td>3.050</td><td>3.243</td><td>3.421</td><td>3.586</td></t<>		1.673	2.039	2.342	2.605	2.839	3.050	3.243	3.421	3.586
1.786 2.066 2.297 2.563 2.689 2.860 3.017 1.706 1.960 2.179 2.375 2.551 2.713 2.862 1.206 1.386 1.541 1.679 1.804 1.918 2.024 1.206 1.386 1.541 1.679 1.804 1.918 2.024 0.985 0.980 0.975 1.062 1.141 1.213 1.652 0.695 0.800 0.890 0.976 1.042 1.188 1.652 0.695 0.741 0.824 0.896 0.964 1.025 1.082 0.603 0.741 0.824 0.896 0.964 1.025 1.082 0.603 0.639 0.771 0.840 0.902 0.959 1.012 0.539 0.620 0.689 0.751 0.850 0.959 1.012 0.539 0.620 0.689 0.751 0.890 0.950 1.012 0.539 0.620 <		1.565	1.907	2.191	2.437	2.655	2.853	3.033	3.200	3.354
1.706 1.960 2.179 2.375 2.551 2.713 2.862 1.206 1.386 1.541 1.679 1.804 1.918 2.024 0.985 1.131 1.258 1.371 1.473 1.652 0.853 0.980 1.090 1.187 1.276 1.566 1.652 0.695 0.800 0.890 0.975 1.042 1.136 1.280 0.695 0.741 0.824 0.898 0.964 1.025 1.082 0.603 0.741 0.824 0.898 0.964 1.025 1.082 0.603 0.693 0.771 0.898 0.964 1.025 1.082 0.653 0.620 0.689 0.751 0.902 0.959 1.012 0.539 0.620 0.689 0.751 0.807 0.858 0.964 0.271 0.289 0.448 0.448 0.446 0.446 0.456 0.271 0.289 0.446 <		1.476	1.798	2.066	2.297	2.503	2.689	2.860	3.017	3.162
1.206 1.386 1.541 1.679 1.804 1.918 2.024 0.985 1.131 1.258 1.371 1.473 1.566 1.652 0.853 0.980 1.090 1.187 1.276 1.356 1.431 0.763 0.876 0.975 1.062 1.141 1.213 1.280 0.696 0.800 0.870 0.970 1.042 1.108 1.168 0.645 0.741 0.824 0.896 0.964 1.025 1.082 0.645 0.741 0.824 0.896 0.964 1.025 1.082 0.659 0.669 0.771 0.896 0.969 1.025 1.082 0.549 0.689 0.751 0.807 0.858 0.964 0.381 0.484 0.495 0.495 0.522 0.270 0.310 0.345 0.346 0.364 0.364 0.204 0.254 0.284 0.369 0.369 0.364		1.400	1.706	1.960	2.179	2.375	2.551	2.713	2.862	3.000
0.985 1.131 1.258 1.371 1.473 1.566 1.652 0.853 0.980 1.090 1.187 1.276 1.356 1.431 0.763 0.876 0.975 1.062 1.141 1.213 1.280 0.696 0.800 0.876 0.976 1.042 1.108 1.168 0.645 0.741 0.894 0.964 1.025 1.082 0.645 0.741 0.894 0.964 1.025 1.082 0.640 0.741 0.824 0.964 1.012 1.082 0.653 0.771 0.840 0.969 1.012 1.012 0.549 0.653 0.771 0.897 0.897 0.959 1.012 0.341 0.487 0.751 0.807 0.858 0.452 0.452 0.270 0.310 0.345 0.375 0.405 0.455 0.455 0.204 0.253 0.284 0.269 0.364 0.364 <		0.090	1.206	1.386	1.541	1.679	1.804	1.918	2.024	2.121
0.853 0.980 1.090 1.187 1.276 1.356 1.431 0.763 0.876 0.975 1.062 1.141 1.213 1.280 0.696 0.800 0.876 0.970 1.042 1.108 1.168 0.645 0.741 0.824 0.896 0.964 1.025 1.082 0.603 0.771 0.840 0.962 0.959 1.012 0.603 0.653 0.771 0.840 0.962 0.959 1.012 0.539 0.620 0.689 0.751 0.807 0.858 0.954 0.539 0.620 0.689 0.751 0.807 0.858 0.965 0.381 0.487 0.531 0.466 0.495 0.640 0.270 0.310 0.345 0.356 0.429 0.452 0.271 0.308 0.361 0.361 0.364 0.364 0.204 0.253 0.281 0.329 0.362 0.362		0.808	0.985	1.131	1.258	1.371	1.473	1.566	1.652	1.732
0.763 0.876 0.975 1.062 1.141 1.213 1.280 0.696 0.800 0.890 0.970 1.042 1.108 1.168 0.645 0.741 0.824 0.896 0.964 1.025 1.082 0.645 0.741 0.824 0.896 0.964 1.025 1.082 0.603 0.693 0.771 0.840 0.962 0.959 1.012 0.539 0.620 0.689 0.751 0.807 0.858 0.964 0.539 0.620 0.689 0.751 0.807 0.858 0.964 0.381 0.487 0.531 0.571 0.607 0.640 0.310 0.345 0.358 0.465 0.495 0.452 0.270 0.310 0.345 0.361 0.429 0.452 0.271 0.281 0.361 0.324 0.364 0.364 0.204 0.294 0.284 0.369 0.362 0.362		0.700	0.853	0.980	1.090	1.187	1.276	1.356	1.431	1.500
0.696 0.800 0.890 0.970 1.042 1.108 1.168 0.645 0.741 0.824 0.896 0.964 1.025 1.082 0.603 0.741 0.824 0.898 0.964 1.025 1.082 0.603 0.639 0.771 0.840 0.969 0.959 1.012 0.539 0.620 0.689 0.751 0.807 0.858 0.964 0.539 0.620 0.689 0.751 0.807 0.869 0.965 0.311 0.438 0.487 0.531 0.571 0.607 0.640 0.311 0.358 0.487 0.456 0.495 0.522 0.452 0.270 0.310 0.345 0.375 0.403 0.459 0.452 0.220 0.253 0.281 0.364 0.356 0.364 0.364 0.204 0.253 0.281 0.364 0.369 0.364 0.366 0.181 0.294 <		0.626	0.763	0.876	0.975	1.062	1.141	1.213	1.280	1.342
0.645 0.741 0.824 0.898 0.964 1.025 1.082 0.603 0.693 0.771 0.840 0.902 0.959 1.012 0.569 0.653 0.776 0.780 0.850 0.904 0.954 0.539 0.620 0.689 0.751 0.807 0.858 0.905 0.381 0.438 0.487 0.531 0.571 0.607 0.640 0.311 0.358 0.348 0.434 0.466 0.495 0.522 0.270 0.310 0.345 0.375 0.403 0.452 0.452 0.271 0.271 0.308 0.345 0.356 0.350 0.452 0.204 0.253 0.281 0.307 0.329 0.350 0.369 0.204 0.253 0.281 0.284 0.365 0.324 0.362 0.191 0.207 0.230 0.286 0.308 0.328 0.332 0.180 0.294 <		0.572	0.696	0.800	0.890	0.970	1.042	1.108	1.168	1.225
0.603 0.693 0.771 0.840 0.902 0.959 1.012 0.569 0.629 0.726 0.726 0.792 0.850 0.904 0.954 0.539 0.620 0.689 0.751 0.807 0.868 0.905 0.381 0.620 0.689 0.751 0.807 0.869 0.905 0.381 0.438 0.487 0.531 0.466 0.495 0.522 0.311 0.358 0.345 0.375 0.403 0.429 0.452 0.270 0.310 0.345 0.336 0.361 0.429 0.452 0.220 0.253 0.281 0.361 0.369 0.369 0.369 0.204 0.253 0.281 0.284 0.366 0.324 0.342 0.191 0.207 0.290 0.286 0.308 0.320 0.191 0.219 0.244 0.266 0.286 0.303 0.302 0.180 0.207 <		0.529	0.645	0.741	0.824	0.898	0.964	1.025	1.082	1.134
0.569 0.653 0.726 0.739 0.850 0.904 0.954 0.539 0.620 0.689 0.751 0.807 0.858 0.905 0.381 0.438 0.487 0.531 0.571 0.607 0.640 0.311 0.358 0.398 0.434 0.466 0.495 0.522 0.270 0.310 0.345 0.375 0.403 0.429 0.452 0.220 0.277 0.308 0.336 0.361 0.364 0.405 0.204 0.253 0.281 0.307 0.329 0.369 0.369 0.204 0.253 0.284 0.266 0.324 0.342 0.369 0.191 0.207 0.209 0.286 0.285 0.303 0.320 0.191 0.207 0.230 0.286 0.286 0.303 0.320		0.495	0.603	0.693	0.771	0.840	0.902	0.959	1.012	1.061
0.539 0.620 0.689 0.751 0.807 0.858 0.905 0.381 0.438 0.487 0.531 0.571 0.607 0.640 0.311 0.358 0.348 0.434 0.466 0.495 0.522 0.270 0.310 0.345 0.375 0.403 0.429 0.452 0.241 0.277 0.308 0.336 0.361 0.384 0.405 0.204 0.253 0.281 0.307 0.329 0.350 0.369 0.204 0.234 0.266 0.284 0.305 0.324 0.342 0.191 0.219 0.244 0.266 0.285 0.303 0.320 0.180 0.207 0.230 0.286 0.286 0.303 0.302		0.467	0.569	0.653	0.726	0.792	0.850	0.904	0.954	1,000
0.381 0.438 0.487 0.531 0.571 0.607 0.640 0.311 0.358 0.398 0.434 0.466 0.495 0.522 0.270 0.310 0.345 0.375 0.403 0.429 0.452 0.241 0.277 0.308 0.336 0.361 0.384 0.405 0.204 0.253 0.281 0.307 0.329 0.350 0.369 0.191 0.219 0.244 0.266 0.285 0.303 0.320 0.180 0.207 0.230 0.256 0.265 0.303 0.320		0.443	0.539	0.620	0.689	0.751	0.807	0.858	0.905	0.949
0.311 0.358 0.398 0.434 0.466 0.495 0.522 0.270 0.310 0.345 0.375 0.403 0.429 0.452 0.241 0.277 0.308 0.336 0.361 0.384 0.405 0.204 0.253 0.281 0.307 0.329 0.350 0.369 0.204 0.234 0.260 0.284 0.305 0.324 0.342 0.191 0.207 0.234 0.266 0.285 0.303 0.320 0.180 0.207 0.230 0.269 0.286 0.303 0.302		0.313	0.381	0.438	0.487	0,531	0.571	0.607	0,640	0.671
0.270 0.310 0.345 0.375 0.403 0.429 0.452 0.241 0.277 0.308 0.336 0.361 0.384 0.405 0.220 0.253 0.281 0.307 0.329 0.350 0.369 0.204 0.234 0.260 0.284 0.305 0.324 0.342 0.191 0.219 0.244 0.266 0.285 0.303 0.320 0.180 0.207 0.230 0.269 0.286 0.308 0.302		0.256	0.311	0.358	0.398	0.434	0.466	0.495	0.522	0.548
0.241 0.277 0.308 0.336 0.361 0.384 0.405 0.220 0.253 0.281 0.307 0.329 0.350 0.369 0.204 0.234 0.260 0.284 0.305 0.324 0.342 0.191 0.219 0.244 0.266 0.285 0.303 0.320 0.180 0.207 0.230 0.269 0.286 0.302 0.302		0.221	0.270	0.310	0.345	0.375	0.403	0.429	0.452	0.474
0.220 0.253 0.281 0.307 0.329 0.350 0.369 0.204 0.234 0.260 0.284 0.305 0.324 0.342 0.191 0.219 0.244 0.266 0.285 0.303 0.320 0.180 0.207 0.230 0.250 0.269 0.286 0.302		0.198	0.241	0.277	0.308	0.336	0.361	0.384	0.405	0.424
0.204 0.234 0.260 0.284 0.305 0.324 0.342 0.191 0.219 0.244 0.266 0.285 0.303 0.320 0.180 0.207 0.230 0.250 0.269 0.286 0.302		0.181	0.220	0.253	0.281	0.307	0.329	0.350	0.369	0.387
0.191 0.219 0.244 0.266 0.285 0.303 0.320 0.180 0.207 0.230 0.250 0.269 0.286 0.302		0.167	0.204	0.234	0.260	0.284	0.305	0.324	0.342	0.359
0.207 0.208 0.209 0.209 0.2020 0.2020 0.2020		0.157	0.191	0.219	0.244	0.266	0.285	0.303	0.320	0.335
		0.148	0.180	0.207	0.230	0.250	0.269	0.286	0.302	0.316

Table A-1. Absolute standard errors for deaths per 1,000 discharges or per 1,000 enrollees-Continued

Discharges or					Deaths per	Deaths per 1,000 discharges or per 1,000 enrollees	or per 1,000 en	rollees			
enrollees in base	10		20	30	40	50	09	70	80	06	100
						Standard error	error				
1,000,000	0.099		0.140	0.171	0.196	0.218	0.237	0.255	0.271	0.286	0.300
2,000,000	0.070		0.099	0.121	0.139	0.154	0.168	0.180	0.192	0.202	0.212
3,000,000	0.057		0.081	0.098	0.113	0.126	0.137	0.147	0.157	0.165	0.173
4,000,000	0.050		0.070	0.085	0.038	0.108	0.10	0.128	0.130	0.143	0.130
000,000,0	0.044		0.003	0.070	0.000	0.097	0.100	0.1.4	0.121	0.120	0.134
6,000,000	0.041		0.057	0.070	0.080	0.089	0.097	0.104	0.111	0.117	0.122
7,000,000	0.038		0.053	0.064	0.074	0.082	0.090	0.096	0.103	0.108	0.113
8,000,000	0.035		0.049	0.060	0.069	0.077	0.084	0.090	0.096	0.101	0.100
9,000,000	0.033		0.047	0.054	0.062	0.073	0.075	0.083	0.086	0.090	0.095
000'000'0	0000		1000	0000	0.00	0.000	0.050	0.067	0.064	0.064	0.067
30,000,000	0.018		0.026	0.031	0.036	0.040	0.043	0.037	0.050	0.052	0.055
	Dea	ths per 1,000	Deaths per 1,000 discharges or per	r per 1,000 enrollees	llees	Discharges or	J	Deaths per 1,000	Deaths per 1,000 discharges or per 1,000 enrollees	er 1,000 enrolle	es
	100	200	300	400	200	in base	100	200	300	400	200
			Standard error	ror					Standard error		
10	94.868	126.491	144.914	154.919	158.114	40,000	1.500	2.000	2.291	2.449	2.500
20	67.082	89.443	102.469	109.545	111.803	50,000	1.342	1.789	2.049	2.191	2.236
30	54.772	73.030	83.666	89.443	91.287	60,000	1.225	1.633	1.871	2.000	2.041
04 0	47.434	63.246	72.457	77.460	79.057	000,000	1.134	210.1	1.732	1.652	1.090
00 00	42.420	50.00	64.007	29.292	10.711	90,000	1.00.1	4-4-4	1.020	1.732	1.700
9 6	38.730	51.640	59.161	63.246	64.550	90,000	000	1.333	1.528	1.633	1.007
8 8	33.541	44.721	51.235	54.772	55.902	200,000	0.671	0.894	1.025	1.095	1.118
06	31.623	42.164	48.305	51.640	52.705	300,000	0.548	0.730	0.837	0.894	0.913
100	30.000	40.000	45.826	48.990	50.000	400,000	0.474	0.632	0.725	0.775	0.791
200	21.213	28.284	32.404	34.641	35.355	200,000	0.424	0.566	0.648	0.693	0.707
300	17.321	23.094	26.458	28.284	28.868	000,009	0.387	0.516	0.592	0.632	0.645
004	15.000	20.000	22.913	24.495	25.000	700,000	0.359	0.478	0.548	0.586	0.598
009	12.247	16.330	18.708	20.000	20.412	900,000	0.316	0.422	0.483	0.516	0.527
200	11.339	15.119	17.321	18.516	18.898	1,000,000	0.300	0.400	0.458	0.490	0.500
800	10.607	14.142	16.202	17.321	17.678	2,000,000	0.212	0.283	0.324	0.346	0.354
006	10.000	13.333	15.275	16.330	16.667	3,000,000	0.173	0.231	0.265	0.283	0.289
000,	9.487 6.708	12.649	14.491	15.492	15.811	4,000,000	0.150	0.200	0.229	0.245	0.250
000 6	0.7.0 1.4.1	000	10.67	10:30	0.100	000,000,0	0.10	0.179	0.203	0000	0.00
3,000	5.477	7.303 6.325	8.367	8.944	9.129	6,000,000	0.122	0.163	0.18/	0.200	0.204
5,000	4.743	5.657	6.481	6.028	7.07	000,000,	0.1.0	0.131	0.173	0.183	0.177
6,000	3.873	5.164	5.916	6.325	6.455	000,000,6	0.100	0.133	0.153	0.163	0.167
2,000	3.586	4.781	5.477	5.855	5.976	10,000,000	0.095	0.126	0.145	0.155	0.158
8,000	3.354	4.472	5.123	5.477	5.590	20,000,000	0.067	0.089	0.102	0.110	0.112
9,000	3.162	4.216	4.830	5.164	5.270	30,000,000	0.055	0.073	0.084	0.089	L60.0
20,000	2.121	2.828	3.240	3.464	3.536						
30,000	1.732	2.309	2.646	2.828	2.887						

Table A-2. Approximate standard errors for discharges per 1,000 enrollees

	~	3	5.901 2.801	2.287	1.980	1.771	1.617	.497	.400	.320	1.252	0.886	0.723	0.626	260	0.511	0.473	0.443	0.417	396	0.280	0.229	0.198	0.177	0.162	0.150	0.140	0.132	0.125	0.089	0.063	0.056	0.051	0.047	0.044	0.042	0.040	0.023
							·	_	_	_																												
	9	0	3.008	2.117	1.834	1.640	1.497	1.386	1.297	1.223	1.160	0.820	0.670	0.580	0.519	0.473	0.438	0.410	0.387	0.367	0.259	0.212	0.183	0.164	0.150	0.139	0.130	0.122	0.116	0.082	0.058	0.052	0.047	0.044	0.041	0.039	0.037	0.021
	5	0.00	3.349	1.933	1.674	1.498	1.367	1.266	1.184	1.116	1.059	0.749	0.611	0.529	0.474	0.432	0.400	0.374	0.353	0.335	0.237	0.193	0.167	0.150	0.137	0.127	0.118	0.112	0.106	0.075	0.053	0.047	0.043	0.040	0.037	0.035	0.033	0.019
	4	000	2.330	1.730	1.498	1.340	1.223	1.132	1.059	0.999	0.947	0.670	0.547	0.474	0.424	0.387	0.358	0.335	0.316	0.300	0.212	0.173	0.150	0.134	0.122	0.113	0.106	0.100	0.095	0.055	0.047	0.042	0.039	0.036	0.033	0.032	0.030	0.017
	က		1 835	1.498	1.298	1.161	1.059	0.981	0.917	0.865	0.821	0.580	0.474	0.410	0.367	0.335	0.310	0.290	0.274	0.260	0.183	0.150	0.130	0.116	0.106	0.098	0.092	0.087	0.082	0.058	0.041	0.037	0.034	0.031	0.029	0.027	0.026	0.015
	2	4	1 490	1.224	1.060	0.948	0.865	0.801	0.749	0.706	0.670	0.474	0.387	0.335	0.300	0.274	0.253	0.237	0.223	0.212	0.150	0.122	0.106	0.095	0.087	0.080	0.075	0.071	0.067	0.047	0.034	0.030	0.027	0.025	0.024	0.022	0.021	0.013
llees	-	700	1.499	0.865	0.749	0.670	0.612	0.567	0.530	0.500	0.474	0.335	0.274	0.237	0.212	0.194	0.179	0.168	0.158	0.150	0.106	0.087	0.075	0.067	0.061	0.057	0.053	0.050	0.047	0.034	0.024	0.021	0.019	0.018	0.017	0.016	0.015	0.009
1,000 enro	6.0	Standard error	1 006	0.821	0.711	0.636	0.581	0.537	0.503	0.474	0.450	0.318	0.260	0.225	0.201	0.184	0.170	0.159	0.150	0.142	0.101	0.082	0.071	0.064	0.058	0.054	0.050	0.047	0.045	0.032	0000	0.020	0.018	0.017	0.016	0.015	0.014	0.008
Discharges per 1,000 enrollees	0.8	Standa	0 048	0.774	0.670	0.600	0.547	0.507	0.474	0.447	0.424	0.300	0.245	0.212	0.190	0.173	0.160	0.150	0.141	0.134	0.095	0.077	0.067	090.0	0.055	0.051	0.047	0.045	0.042	0.030	0.001	0.019	0.017	0.016	0.015	0.014	0.013	0.008
Disc	0.7		0.887	0.724	0.627	0.561	0.512	0.474	0.443	0.418	0.397	0.280	0.229	0.198	0.177	0.162	0.150	0.140	0.132	0.125	0.089	0.072	0.063	0.056	0.051	0.047	0.044	0.042	0.040	0.023	0000	0.018	0.016	0.015	0.014	0.013	0.013	0.007
	9.0		0.821	0.670	0.581	0.519	0.474	0.439	0.411	0.387	0.367	0.260	0.212	0.184	0.164	0.150	0.139	0.130	0.122	0.116	0.082	0.067	0.058	0.052	0.047	0.044	0.041	0.039	0.037	0.026	0.018	0.016	0.015	0.014	0.013	0.012	0.012	0.007
	0.5		0.750	0.612	0.530	0.474	0.433	0.401	0.375	0.353	0.335	0.237	0.194	0.168	0.150	0.137	0.127	0.119	0.112	0.106	0.075	0.061	0.053	0.047	0.043	0.040	0.037	0.035	0.034	0.024	0.017	0.015	0.014	0.013	0.012	0.011	0.011	0.00
	0.4			0.547	0.474	0.424	0.387	0.358	0.335	0.316	0.300	0.212	0.173	0.150	0.134	0.122	0.113	0.106	0.100	0.095	0.067	0.055	0.047	0.042	0.039	0.036	0.034	0.032	0.030	0.021	0.015	0.013	0.012	0.011	0.011	0.010	0.009	0.005
	0.3				0.411	0.367	0.335	0.310	0.290	0.274	0.260	0.184	0.150	0.130	0.116	0.106	0.098	0.092	0.087	0.082	0.058	0.047	0.041	0.037	0.034	0.031	0.029	0.027	0.026	0.018	0.013	0.012	0.011	0.010	0.00	0.009	0.008	0.005
	0.2					0.300	0.274	0.253	0.237	0.223	0.212	0.150	0.122	0.106	0.095	0.087	0.080	0.075	0.071	0.067	0.047	0.039	0.034	0:030	0.027	0.025	0.024	0.022	0.021	0.013	0.011	0.00	0.00	0.008	0.007	0.007	0.007	0.004
	0.1										0.150	0.106	0.087	0.075	0.067	0.061	0.057	0.053	0.050	0.047	0.034	0.027	0.024	0.021	0.019	0.018	0.017	0.016	0.015	0.00	0 00 7	0.007	900.0	900.0	0.005	0.005	0.005	0.003
Forolloes	in base	1	000,1	3,000	4,000	5,000	6,000	2,000	8,000	000'6	10,000	20,000	30,000	40,000	20,000	000'09	70,000	80,000	90,000	100,000	200,000	300,000	400,000	200,000	000,009	700,000	800,000	900,000	000,000,1	3,000,000	4 000 000	5,000,000	6,000,000	7,000,000	8,000,000	000,000,6	20,000,000	30,000,000

Table A-2. Approximate standard errors for discharges per 1,000 enrollees—Continued

1,000 4,233 4,489 4,731 6,675 5,788 6,645 7,413 8,101 1,445 2,347 1,448 2,472 2,428 4,729 5,489 5,474 5,472 5,489 5,429 5,489 5,473 6,489 5,473 6,489 5,473 6,489 5,479 6,489 5,479 6,489 5,489 6,48					ฉิ	scharges p	Discharges per 1,000 enrollees	rollees						
4.233 4.489 4.731 6.675 9.397 10.483 11457 12.347 1 2.943 3.144 2.345 4.720 5.768 6.645 6.052 6.615 7.133 2.944 2.952 2.734 4.720 5.768 6.645 6.052 6.615 7.133 2.147 2.244 2.365 3.338 4.078 4.684 5.241 5.729 6.173 1.893 1.024 2.365 3.338 4.078 4.684 4.203 6.684 5.241 5.729 6.173 1.600 1.697 1.788 2.252 3.083 3.562 3.962 4.367 6.171 1.401 1.697 1.673 2.286 2.330 3.352 3.494 4.187 1.184 1.411 1.498 1.677 2.286 2.349 3.819 4.186 1.411 1.499 1.489 1.716 1.489 1.489 1.167 1.181 1.411		20	30	40	50	09	20	80	06	100	200	300	400	200
4233 4489 4,731 6675 8.157 9.397 10.483 11457 12.347 2.993 3.174 2.345 4,720 5.768 6.645 7.413 8.101 2.944 2.365 2.348 4,709 4.689 5.241 5.729 6.173 1.172 2.244 2.365 3.388 4,709 4.689 5.241 5.729 6.173 1.172 1.2244 2.365 3.389 4.203 4.687 5.041 1.728 1.728 1.228 4.209 4.681 5.729 6.173 6.615 7.129 1.728 1.228 4.203 4.689 5.249 5.641 5.621 1.728 1.728 1.228 4.203 4.681 5.729 6.173 6.617 5.021 1.728 1.489 1.489 5.484 3.329 4.687 5.641 4.769 4.686 6.173 6.617 6.027 6.028 6.047 6.048 6.048 6.172 6.029 6.047						Stan	dard error							
2.444 2.552 2.731 3.644 4.709 5.426 6.052 6.615 7.129 2.147 2.244 2.365 3.38 4.078 4.699 5.241 5.724 5.173 1.680 1.687 2.365 3.38 4.678 4.089 5.244 5.729 1.680 1.687 1.718 2.253 3.884 4.203 4.688 5.124 5.524 1.497 1.687 1.677 2.256 2.719 3.132 3.494 3.819 4.116 1.411 1.496 1.577 2.256 2.719 3.132 3.494 3.819 4.116 1.399 1.4419 1.496 2.111 2.572 3.494 3.819 4.116 0.773 0.820 0.864 2.111 2.572 3.494 3.819 4.116 0.773 0.820 0.748 1.055 1.290 1.489 1.716 1.489 1.716 1.489 1.476 1.489 1.489 <td></td> <td>6.675</td> <td>8.157 5.768</td> <td>9.397 6.645</td> <td>10.483 7.413</td> <td>11.457 8.101</td> <td>12.347 8.731</td> <td>13.169 9.312</td> <td>13.936 9.854</td> <td>14.655 10.363</td> <td>20.238 14.310</td> <td>24.173 17.093</td> <td>27.187 19.224</td> <td>29.562 20.903</td>		6.675	8.157 5.768	9.397 6.645	10.483 7.413	11.457 8.101	12.347 8.731	13.169 9.312	13.936 9.854	14.655 10.363	20.238 14.310	24.173 17.093	27.187 19.224	29.562 20.903
2.117 2.244 2.365 3.383 4.078 4.699 5.241 5.729 6.173 1.893 2.007 2.116 2.985 3.644 4.203 4.687 5.041 1.728 1.831 1.931 2.725 3.395 2.864 4.577 5.041 1.600 1.687 1.788 2.225 2.719 3.322 3.962 4.330 4.667 1.497 1.587 1.539 1.419 1.496 2.111 2.579 3.972 3.315 3.644 3.819 4.166 1.437 1.496 1.577 2.225 2.719 3.132 3.494 3.819 4.166 1.497 1.496 1.496 2.111 2.579 2.972 3.315 3.964 4.566 0.594 1.496 2.111 2.579 2.972 3.315 3.479 4.166 0.599 0.770 0.669 0.974 1.154 1.299 1.489 1.489 1.466 1.577 <td></td> <td>3.854</td> <td>4.709</td> <td>5.426</td> <td>6.052</td> <td>6.615</td> <td>7.129</td> <td>7.603</td> <td>8.046</td> <td>8.461</td> <td>11.684</td> <td>13.956</td> <td>15.696</td> <td>17.068</td>		3.854	4.709	5.426	6.052	6.615	7.129	7.603	8.046	8.461	11.684	13.956	15.696	17.068
1,728 1,833 1,931 2,723 3,332 3,836 4,286 4,267 6,71 1,600 1,697 1,788 2,523 3,083 3,552 3,962 4,667 6,71 1,600 1,697 1,788 2,523 3,083 3,552 3,962 4,667 4,667 1,411 1,687 1,673 2,360 2,884 3,323 3,706 4,667 4,667 1,439 1,696 2,111 2,579 2,972 3,316 3,694 4,667 0,947 1,004 1,058 1,493 1,824 2,101 2,344 2,662 2,761 0,699 0,740 0,864 1,716 1,944 2,762 2,774 1,784 1,786 1,673 1,746 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,786 1,		3.338	4.078 3.648	4.699	5.241 4.688	5.729	6.173	6.585 5.889	6.968	7.328	10.119	12.087	13.593	13.220
1.600 1.637 1.738 2.723 3.039 3.520 4.220 4.371 4.047 4.449 4.149 <th< td=""><td></td><td>2 7 2 5</td><td>0.00</td><td>202.</td><td>000.1</td><td>7 677</td><td>5 044</td><td>5 376</td><td>202.2</td><td>7 00 Y</td><td>8 262</td><td>0 860</td><td>11 000</td><td>12.069</td></th<>		2 7 2 5	0.00	202.	000.1	7 677	5 044	5 376	202.2	7 00 Y	8 262	0 860	11 000	12.069
1,497 1,587 1,750 2,525 2,795 3,795 4,795 1,797 1,497 1,496 1,577 2,225 2,719 3,132 3,796 4,757 1,106 1,116 1,116 1,116 1,116 1,116 1,116 1,116 1,116 1,116 1,116 1,116 2,344 3,819 4,116 1,116 1,116 1,116 1,116 1,116 2,349 3,819 4,116 1,1	•	2 523	2000	3.650	3 062	4.077	3.041	2.370	5.063	5.300 5.300	7 649	9.003	10.276	11 173
1.471 1.496 1.577 2.225 2.749 3.132 3.494 3.819 4.116 0.347 1.496 1.577 2.225 2.749 3.132 3.494 3.819 4.116 0.547 1.004 1.058 1.499 1.716 1.914 2.092 2.254 0.673 0.864 1.219 1.489 1.716 1.914 2.092 2.254 0.599 0.635 0.669 0.944 1.154 1.329 1.483 1.620 1.746 0.546 0.580 0.611 0.862 1.053 1.213 1.483 1.620 1.746 0.546 0.580 0.611 0.862 0.744 1.053 1.213 1.483 1.620 1.746 0.446 0.651 0.862 0.746 0.860 0.991 1.102 1.479 1.594 0.446 0.673 0.498 0.774 0.860 0.941 1.172 1.281 1.476 0.428	,	2360	2.003	3.323	3.706	4.050	4.365	4.656	4 927	5 181	7.155	8.547	9.612	10.452
1.339 1.419 1.496 2.111 2.579 2.375 3.315 3.623 3.904 0.947 1.004 1.058 1.493 1.824 2.101 2.344 2.562 2.761 0.699 0.820 0.844 1.219 1.489 1.716 1.914 2.092 2.254 0.699 0.710 0.748 1.055 1.213 1.353 1.479 1.594 0.599 0.669 0.944 1.154 1.153 1.263 1.479 1.594 0.596 0.537 0.655 0.796 0.975 1.213 1.353 1.479 1.594 0.473 0.560 0.674 0.860 0.975 1.123 1.283 1.369 1.476 0.423 0.449 0.473 0.668 0.816 0.940 1.048 1.146 1.236 0.224 0.259 0.277 0.865 0.420 0.489 0.512 0.543 0.189 0.271 0.234		2.225	2.719	3.132	3.494	3.819	4.116	4.390	4.645	4.885	6.746	8.058	9.062	9.854
0.947 1.004 1.058 1.493 1.824 2.101 2.344 2.562 2.761 0.573 0.820 0.844 1.219 1.486 1.716 1.914 2.092 2.254 0.589 0.635 0.669 0.944 1.154 1.329 1.483 1.657 1.812 1.952 0.596 0.636 0.669 0.944 1.154 1.239 1.483 1.627 1.812 1.954 0.506 0.580 0.611 0.862 0.796 0.975 1.123 1.253 1.479 1.594 0.506 0.537 0.565 0.746 0.912 1.051 1.105 1.281 1.369 0.446 0.473 0.499 0.774 0.912 1.105 1.281 1.380 0.427 0.475 0.577 0.665 0.741 0.816 0.577 0.665 0.741 0.817 0.299 0.271 0.286 0.420 0.469 0.512 0.542 <td>_</td> <td>2.111</td> <td>2.579</td> <td>2.972</td> <td>3.315</td> <td>3.623</td> <td>3.904</td> <td>4.164</td> <td>4.407</td> <td>4.634</td> <td>6.400</td> <td>7.644</td> <td>8.597</td> <td>9.348</td>	_	2.111	2.579	2.972	3.315	3.623	3.904	4.164	4.407	4.634	6.400	7.644	8.597	9.348
0.773 0.820 0.864 1.219 1.489 1.716 1.914 2.092 2.254 0.669 0.770 0.748 1.055 1.290 1486 1.657 1.812 1.952 0.569 0.635 0.669 0.944 1.054 1.529 1.483 1.620 1.746 0.506 0.580 0.611 0.882 1.053 1.253 1.476 1.746 0.506 0.537 0.565 0.746 0.947 1.051 1.172 1.281 1.369 0.473 0.502 0.746 0.946 0.912 1.051 1.172 1.283 1.476 0.486 0.499 0.744 0.860 0.991 1.105 1.281 1.386 0.423 0.449 0.473 0.665 0.741 0.860 0.741 0.860 0.741 0.860 0.741 0.860 0.741 0.860 0.741 0.860 0.741 0.860 0.741 0.860 0.741 0.860		1.493	1.824	2.101	2.344	2.562	2.761	2.945	3.116	3.277	4.525	5.405	6.079	6.610
0.669 0.710 0.748 1.055 1.290 1.486 1.657 1.812 1.952 0.599 0.635 0.669 0.944 1.154 1329 1483 1.620 1.746 0.546 0.580 0.944 1.154 1329 1483 1.620 1.746 0.546 0.580 0.786 0.975 1.213 1.253 1.479 1.594 0.472 0.599 0.749 0.704 0.860 0.991 1.105 1.208 1.301 0.446 0.473 0.668 0.816 0.991 1.105 1.208 1.301 0.423 0.499 0.704 0.860 0.991 1.105 1.208 1.301 0.244 0.429 0.472 0.577 0.665 0.741 0.816 0.940 1.146 1.263 1.369 0.189 0.273 0.334 0.420 0.565 0.420 0.571 0.665 0.741 0.542 0.741 0.543		1.219	1.489	1.716	1.914	2.092	2.254	2.404	2.544	2.676	3.695	4.413	4.964	5.397
0.599 0.635 0.669 0.944 1.154 1.329 1.483 1.620 1.746 0.546 0.580 0.611 0.862 1.053 1.213 1.353 1.479 1.594 0.506 0.537 0.566 0.798 0.975 1.1253 1.281 1.380 0.473 0.502 0.529 0.774 0.991 1.105 1.208 1.301 0.423 0.446 0.473 0.668 0.816 0.991 1.105 1.208 1.301 0.299 0.317 0.335 0.472 0.577 0.665 0.741 0.816 0.940 1.146 1.284 0.299 0.334 0.408 0.470 0.524 0.573 0.845 0.471 0.524 0.573 0.665 0.741 0.810 0.742 0.673 0.408 0.565 0.741 0.810 0.742 0.673 0.665 0.741 0.810 0.742 0.742 0.742 0.742 0.742 <td< td=""><td></td><td>1.055</td><td>1.290</td><td>1.486</td><td>1.657</td><td>1.812</td><td>1.952</td><td>2.082</td><td>2.203</td><td>2.317</td><td>3.200</td><td>3.822</td><td>4.299</td><td>4.674</td></td<>		1.055	1.290	1.486	1.657	1.812	1.952	2.082	2.203	2.317	3.200	3.822	4.299	4.674
0.546 0.580 0.611 0.862 1.053 1.213 1.353 1.479 1.594 0.506 0.537 0.565 0.798 0.975 1.123 1.253 1.369 1.476 0.473 0.502 0.746 0.912 1.051 1.172 1.281 1.301 0.443 0.473 0.668 0.940 1.105 1.208 1.301 0.423 0.449 0.704 0.816 0.940 1.048 1.146 1.208 0.299 0.317 0.335 0.472 0.577 0.665 0.741 0.810 0.212 0.259 0.273 0.334 0.408 0.470 0.524 0.573 0.189 0.271 0.665 0.469 0.512 0.617 0.189 0.160 0.170 0.179 0.252 0.384 0.469 0.512 0.189 0.167 0.233 0.284 0.469 0.512 0.512 0.140 0.140		0.944	1.154	1.329	1.483	1.620	1.746	1.862	1.971	2.073	2.862	3.419	3.845	4.181
0.506 0.537 0.565 0.798 0.975 1.123 1.253 1.369 1.476 0.473 0.502 0.529 0.746 0.912 1.051 1.172 1.281 1.380 0.448 0.473 0.668 0.816 0.991 1.105 1.281 1.301 0.429 0.347 0.668 0.816 0.991 1.105 1.286 1.301 0.299 0.347 0.668 0.816 0.940 1.048 1.146 1.235 0.299 0.347 0.665 0.741 0.643 0.605 0.661 0.713 0.189 0.272 0.238 0.470 0.524 0.573 0.617 0.189 0.270 0.299 0.365 0.420 0.469 0.504 0.170 0.173 0.193 0.272 0.384 0.428 0.469 0.512 0.170 0.170 0.179 0.252 0.306 0.365 0.420 0.489 0.431		0.862	1.053	1.213	1.353	1.479	1.594	1.700	1.799	1.892	2.613	3.121	3.510	3.816
0.473 0.502 0.529 0.746 0.912 1.051 1.172 1.281 1.380 0.446 0.473 0.499 0.704 0.860 0.991 1.105 1.208 1.301 0.446 0.443 0.473 0.668 0.816 0.940 1.1048 1.146 1.235 0.299 0.244 0.253 0.472 0.573 0.665 0.661 0.713 0.212 0.224 0.237 0.334 0.469 0.420 0.665 0.661 0.713 0.189 0.201 0.212 0.299 0.365 0.420 0.665 0.713 0.713 0.180 0.202 0.237 0.333 0.384 0.428 0.468 0.504 0.160 0.170 0.179 0.252 0.308 0.355 0.396 0.433 0.467 0.160 0.170 0.179 0.252 0.308 0.355 0.349 0.468 0.160 0.150 0.150		0.798	0.975	1.123	1.253	1.369	1.476	1.574	1.666	1.752	2.419	2.889	3.249	3.533
0.446 0.473 0.499 0.704 0.860 0.991 1.105 1.208 1.301 0.423 0.449 0.473 0.668 0.816 0.940 1.048 1.146 1.235 0.299 0.317 0.335 0.472 0.577 0.665 0.661 0.713 0.299 0.273 0.386 0.470 0.524 0.573 0.617 0.189 0.201 0.212 0.299 0.365 0.469 0.512 0.512 0.189 0.201 0.212 0.299 0.365 0.420 0.549 0.512 0.189 0.201 0.273 0.333 0.384 0.428 0.512 0.504 0.170 0.170 0.179 0.252 0.308 0.355 0.396 0.443 0.467 0.150 0.167 0.286 0.287 0.396 0.448 0.552 0.150 0.159 0.160 0.299 0.352 0.396 0.448 0.512		0.746	0.912	1.051	1.172	1.281	1.380	1.472	1.558	1.639	2.263	2.703	3.040	3.305
0.423 0.449 0.473 0.668 0.816 0.940 1.048 1.146 1.235 0.299 0.317 0.335 0.472 0.577 0.665 0.741 0.810 0.873 0.244 0.259 0.273 0.385 0.471 0.548 0.605 0.661 0.713 0.212 0.224 0.227 0.396 0.426 0.429 0.617 0.189 0.224 0.273 0.333 0.384 0.469 0.512 0.552 0.189 0.201 0.273 0.384 0.469 0.552 0.437 0.180 0.170 0.179 0.252 0.308 0.356 0.433 0.467 0.150 0.175 0.252 0.308 0.356 0.439 0.448 0.564 0.150 0.158 0.223 0.272 0.314 0.382 0.445 0.141 0.158 0.223 0.272 0.314 0.384 0.256 0.134		0.704	0.860	0.991	1.105	1.208	1.301	1.388	1.469	1.545	2.133	2.548	2.866	3.116
0.299 0.317 0.335 0.472 0.577 0.665 0.741 0.810 0.873 0.244 0.259 0.273 0.385 0.471 0.543 0.605 0.661 0.713 0.212 0.224 0.237 0.334 0.408 0.470 0.524 0.573 0.617 0.189 0.201 0.212 0.299 0.365 0.420 0.469 0.512 0.552 0.173 0.183 0.193 0.273 0.384 0.428 0.468 0.504 0.160 0.170 0.179 0.252 0.308 0.345 0.433 0.467 0.150 0.179 0.252 0.308 0.355 0.396 0.433 0.467 0.150 0.179 0.272 0.308 0.355 0.396 0.437 0.407 0.150 0.158 0.271 0.278 0.271 0.149 0.182 0.291 0.332 0.346 0.437 0.047 0.052		0.668	0.816	0.940	1.048	1.146	1.235	1.317	1.394	1.466	2.024	2.417	2.719	2.956
0.244 0.259 0.273 0.385 0.471 0.543 0.605 0.661 0.713 0.212 0.224 0.237 0.334 0.408 0.470 0.524 0.573 0.617 0.189 0.201 0.212 0.299 0.365 0.420 0.469 0.512 0.552 0.173 0.183 0.193 0.273 0.333 0.384 0.468 0.504 0.160 0.170 0.179 0.252 0.308 0.355 0.396 0.467 0.150 0.179 0.252 0.308 0.355 0.396 0.433 0.467 0.140 0.158 0.272 0.272 0.313 0.435 0.412 0.141 0.150 0.158 0.272 0.313 0.349 0.382 0.412 0.041 0.150 0.149 0.182 0.297 0.331 0.362 0.436 0.042 0.100 0.149 0.182 0.149 0.149 0.149		0.472	0.577	0.665	0.741	0.810	0.873	0.931	0.985	1.036	1.431	1.709	1.922	2.090
0.212 0.224 0.237 0.334 0.408 0.470 0.524 0.573 0.617 0.189 0.201 0.212 0.299 0.365 0.420 0.469 0.512 0.552 0.173 0.183 0.193 0.273 0.384 0.428 0.468 0.504 0.160 0.170 0.179 0.252 0.308 0.355 0.396 0.433 0.467 0.150 0.159 0.262 0.308 0.355 0.371 0.405 0.437 0.141 0.150 0.167 0.223 0.272 0.331 0.349 0.382 0.142 0.149 0.182 0.297 0.331 0.362 0.437 0.095 0.100 0.149 0.182 0.210 0.256 0.276 0.276 0.077 0.082 0.086 0.122 0.149 0.142 0.148 0.156 0.195 0.055 0.070 0.096 0.149 0.149 0.149		0.385	0.471	0.543	0.605	0.661	0.713	0.760	0.805	0.846	1.168	1.396	1.570	1.707
0.189 0.201 0.212 0.299 0.365 0.420 0.469 0.512 0.552 0.173 0.183 0.193 0.273 0.333 0.384 0.469 0.512 0.552 0.150 0.170 0.179 0.252 0.308 0.355 0.396 0.433 0.467 0.150 0.159 0.167 0.288 0.332 0.371 0.405 0.437 0.141 0.150 0.158 0.272 0.313 0.349 0.382 0.412 0.142 0.149 0.182 0.297 0.331 0.362 0.437 0.095 0.100 0.149 0.182 0.297 0.334 0.256 0.276 0.077 0.082 0.086 0.149 0.172 0.149 0.172 0.191 0.209 0.276 0.067 0.077 0.076 0.016 0.149 0.115 0.149 0.149 0.149 0.149 0.149 0.149 0.149 0.149 <td></td> <td>0.334</td> <td>0.408</td> <td>0.470</td> <td>0.524</td> <td>0.573</td> <td>0.617</td> <td>0.658</td> <td>0.697</td> <td>0.733</td> <td>1.012</td> <td>1.209</td> <td>1.359</td> <td>1.478</td>		0.334	0.408	0.470	0.524	0.573	0.617	0.658	0.697	0.733	1.012	1.209	1.359	1.478
0.173 0.183 0.193 0.273 0.333 0.384 0.428 0.468 0.504 0.160 0.170 0.179 0.252 0.308 0.355 0.396 0.433 0.467 0.150 0.159 0.167 0.223 0.272 0.313 0.349 0.382 0.412 0.141 0.150 0.158 0.227 0.313 0.349 0.382 0.412 0.134 0.142 0.149 0.182 0.297 0.334 0.256 0.276 0.095 0.100 0.149 0.182 0.210 0.209 0.276 0.077 0.082 0.086 0.122 0.149 0.172 0.191 0.209 0.067 0.071 0.075 0.094 0.115 0.148 0.165 0.195 0.055 0.058 0.061 0.094 0.115 0.135 0.148 0.159 0.051 0.053 0.061 0.096 0.105 0.105 0.115		0.299	0.365	0.420	0.469	0.512	0.552	0.589	0.623	0.655	0.905	1.081	1.216	1.322
0.150 0.170 0.179 0.232 0.336 0.336 0.336 0.455 0.445 0.445 0.445 0.445 0.445 0.445 0.445 0.445 0.445 0.445 0.442 0.442 0.442 0.442 0.442 0.442 0.442 0.442 0.442 0.442 0.442 0.444 0.149 0.149 0.182 0.297 0.334 0.362 0.349 0.442 0.045 0.100 0.149 0.182 0.210 0.204 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.276 0.172 0.149 0.148 0.148 0.165 0.175 0.175 0.175 0.175 0.175 0.175 0.175 0.175 0.175 0.175 0.175 0.175 0.175 0.175 0.175 0.148 0.156 0.175 0.148 0.156 0.148 0.156 0.148 0.1		0.273	0.333	0.384	0.428	0.468	0.504	0.538	0.569	0.598	0.826	0.987	011.1	1.207
0.150 0.159 0.167 0.236 0.286 0.332 0.371 0.405 0.437 0.437 0.159 0.150 0.158 0.223 0.272 0.313 0.349 0.382 0.412 0.156 0.156 0.223 0.272 0.331 0.349 0.382 0.4412 0.156 0.156 0.211 0.258 0.297 0.331 0.356 0.296 0.390 0.095 0.100 0.106 0.149 0.182 0.210 0.234 0.256 0.276 0.0077 0.082 0.086 0.122 0.149 0.172 0.191 0.209 0.225 0.067 0.067 0.067 0.094 0.115 0.133 0.148 0.162 0.175 0.055 0.065 0.067 0.094 0.115 0.135 0.148 0.159 0.159 0.051 0.054 0.057 0.090 0.105 0.105 0.105 0.105 0.105 0.0051 0.0051 0.0057 0.105 0.105 0.105 0.105 0.105 0.105 0.105 0.105 0.105 0.105 0.105 0.105 0.105 0.105 0.105 0.117 0.128 0.138 0.047 0.050 0.077 0.086 0.099 0.110 0.121 0.130 0.042 0.042 0.047 0.067 0.086 0.065 0.066 0.074 0.066 0.077 0.077 0		2020	0.00	000	0.000	5 6	0.40	0.430	20.0	50.0	2 6	1000	0.00	
0.144 0.142 0.150 0.214 0.258 0.297 0.345 0.356 0.390 0.0142 0.142 0.145 0.144 0.142 0.146 0.149 0.182 0.297 0.331 0.362 0.390 0.095 0.100 0.106 0.149 0.182 0.210 0.234 0.256 0.276 0.077 0.082 0.086 0.122 0.149 0.149 0.146 0.191 0.209 0.225 0.067 0.067 0.067 0.094 0.115 0.149 0.146 0.165 0.165 0.055 0.067 0.094 0.115 0.135 0.148 0.155 0.055 0.055 0.067 0.094 0.115 0.135 0.148 0.159 0.051 0.054 0.057 0.090 0.097 0.112 0.125 0.137 0.148 0.159 0.047 0.050 0.075 0.091 0.105 0.117 0.128 0.139 0.047 0.050 0.075 0.098 0.099 0.110 0.121 0.130 0.042 0.045 0.047 0.067 0.086 0.099 0.110 0.121 0.130 0.042 0.042 0.047 0.067 0.088 0.066 0.074 0.081 0.081 0.061 0.061 0.061 0.061 0.061 0.061 0.061 0.061 0.061 0.061 0.061 0.061 0.061		0.230	0.288	0.332	0.37	0.400	0.437	0.400	0.493	0.016	0.710	0.653	0.90	0.040
0.095 0.100 0.106 0.149 0.182 0.210 0.234 0.256 0.276 0.077 0.082 0.086 0.122 0.149 0.172 0.191 0.209 0.276 0.067 0.071 0.075 0.106 0.129 0.149 0.166 0.181 0.195 0.069 0.067 0.094 0.115 0.133 0.162 0.175 0.055 0.058 0.061 0.097 0.112 0.125 0.148 0.155 0.051 0.054 0.057 0.097 0.112 0.125 0.148 0.156 0.047 0.050 0.061 0.097 0.112 0.125 0.137 0.148 0.047 0.050 0.075 0.091 0.105 0.117 0.128 0.138 0.045 0.047 0.050 0.070 0.086 0.099 0.110 0.121 0.123 0.030 0.032 0.037 0.058 0.066 0.074		0.223	0.258	0.97	0.331	0.362	0.390	0.439	0.403	0.463	0.073	0.500	0.860	0.935
0.077 0.082 0.086 0.122 0.149 0.172 0.191 0.209 0.225 0.067 0.071 0.075 0.106 0.129 0.149 0.166 0.181 0.195 0.060 0.063 0.067 0.094 0.115 0.133 0.148 0.162 0.175 0.055 0.058 0.061 0.086 0.105 0.121 0.135 0.148 0.159 0.051 0.054 0.057 0.091 0.112 0.125 0.137 0.148 0.047 0.050 0.075 0.091 0.105 0.117 0.128 0.138 0.045 0.047 0.050 0.070 0.086 0.099 0.110 0.121 0.138 0.042 0.047 0.050 0.070 0.086 0.099 0.110 0.121 0.133 0.030 0.032 0.037 0.058 0.066 0.074 0.081 0.066 0.074 0.066 0.074 0.061 <td></td> <td>0.149</td> <td>0.182</td> <td>0.210</td> <td>0.234</td> <td>0.256</td> <td>0.276</td> <td>0.294</td> <td>0.312</td> <td>0.328</td> <td>0.453</td> <td>0.541</td> <td>0.608</td> <td>0.661</td>		0.149	0.182	0.210	0.234	0.256	0.276	0.294	0.312	0.328	0.453	0.541	0.608	0.661
0.067 0.071 0.075 0.106 0.129 0.149 0.166 0.181 0.195 0.060 0.063 0.067 0.094 0.115 0.133 0.148 0.162 0.175 0.055 0.058 0.061 0.086 0.105 0.121 0.135 0.148 0.159 0.051 0.054 0.067 0.097 0.112 0.125 0.137 0.148 0.047 0.050 0.075 0.091 0.105 0.117 0.128 0.138 0.045 0.047 0.050 0.070 0.086 0.099 0.110 0.121 0.130 0.042 0.045 0.047 0.067 0.067 0.099 0.115 0.123 0.030 0.032 0.033 0.047 0.058 0.066 0.074 0.081 0.024 0.026 0.027 0.039 0.047 0.064 0.061 0.061 0.071		0.122	0.149	0.172	0.191	0.20	0.225	0.240	0.254	0.268	0.369	0.441	0.496	0.540
0.060 0.063 0.067 0.094 0.115 0.133 0.148 0.162 0.175 0.055 0.058 0.061 0.086 0.105 0.121 0.135 0.148 0.159 0.051 0.054 0.057 0.097 0.112 0.125 0.137 0.148 0.047 0.050 0.075 0.091 0.105 0.117 0.128 0.138 0.045 0.047 0.050 0.070 0.086 0.099 0.110 0.121 0.123 0.030 0.032 0.033 0.047 0.058 0.056 0.074 0.081 0.094 0.015 0.0123 0.024 0.026 0.027 0.039 0.047 0.056 0.074 0.066 0.074 0.061 0.071		0.106	0.129	0.149	0.166	0.181	0.195	0.208	0.220	0.232	0.320	0.382	0.430	0.467
0.055 0.058 0.061 0.086 0.105 0.121 0.135 0.148 0.159 0.051 0.054 0.057 0.080 0.097 0.112 0.125 0.137 0.148 0.047 0.050 0.075 0.091 0.105 0.117 0.128 0.138 0.045 0.047 0.050 0.070 0.086 0.099 0.110 0.121 0.130 0.042 0.045 0.047 0.067 0.067 0.098 0.066 0.074 0.081 0.030 0.032 0.033 0.047 0.058 0.066 0.074 0.081 0.024 0.026 0.027 0.039 0.047 0.064 0.061 0.066 0.071		0.094	0.115	0.133	0.148	0.162	0.175	0.186	0.197	0.207	0.286	0.342	0.384	0.418
0.051 0.054 0.057 0.080 0.097 0.112 0.125 0.137 0.148 0.047 0.050 0.053 0.075 0.091 0.105 0.117 0.128 0.138 0.047 0.050 0.053 0.075 0.091 0.105 0.117 0.128 0.138 0.045 0.047 0.050 0.070 0.086 0.099 0.110 0.121 0.130 0.042 0.045 0.047 0.067 0.082 0.094 0.105 0.115 0.123 0.030 0.032 0.033 0.047 0.058 0.066 0.074 0.081 0.087 0.024 0.026 0.027 0.039 0.047 0.054 0.061 0.066 0.071		0.086	0.105	0.121	0.135	0.148	0.159	0.170	0.180	0.189	0.261	0.312	0.351	0.382
0.045 0.047 0.050 0.070 0.086 0.099 0.110 0.121 0.130 0.045 0.045 0.047 0.067 0.082 0.094 0.105 0.115 0.123 0.030 0.032 0.033 0.047 0.058 0.064 0.061 0.081 0.087 0.024 0.026 0.027 0.039 0.047 0.054 0.061 0.066 0.071		0.080	0.097	0.105	0.125	0.137	0.148	0.157	0.167	0.175	0.242	0.289	0.325	0.331
0.042 0.045 0.047 0.067 0.082 0.094 0.105 0.115 0.123 0.030 0.032 0.033 0.047 0.058 0.066 0.074 0.081 0.087 0.024 0.026 0.027 0.039 0.047 0.054 0.061 0.066 0.071		0.070	0.086	660.0	0.110	0.121	0.130	0.139	0.147	0.154	0.213	0.255	0.287	0.312
0.030 0.032 0.033 0.047 0.058 0.066 0.074 0.081 0.087 0.024 0.026 0.027 0.039 0.047 0.054 0.061 0.066 0.071		0.067	0.082	0.094	0.105	0.115	0.123	0.132	0.139	0.147	0.202	0.242	0.272	0.296
0.024 0.026 0.027 0.039 0.047 0.054 0.061 0.066 0.071		0.047	0.058	990.0	0.074	0.081	0.087	0.093	0.099	0.104	0.143	0.171	0.192	0.209
		0.039	0.047	0.054	0.061	0.066	0.071	0.076	0.080	0.085	0.117	0.140	0.15/	L/L/0

Table A-3. Number of metropolitan statistical areas (MSAs) and rural areas, by division: United States, 1986

Division	MSAs and rural areas
New England	21
Middle Atlantic	38
East North Central	63
West North Central	\$
South Atlantic	49
East South Central	26
West South Central	48
Mountain	28
Pacific	43



Appendix B. Diagnostic groups and categories

Diagnostic group

Malignant neoplasms of digestive organs and peritoneum

Malignant neoplasms of trachea, bronchus, and lung

Stroke

Heart disease

schemic heart disease

Acute myocardial infarction Pneumonia and influenza

Hernia of abdominal cavity

Disease of the gallbladder Fracture of neck of femur

Diagnostic category

Cancer (high risk)

Severe chronic cardiovascular disease (high risk) Severe acute cardiovascular disease (high risk) Circulatory disease (low risk)

Gastrointestinal catastrophies (high risk)

Metabolic and electrolyte disorders (high risk) Pulmonary disease (high risk)

Infectious disease (high risk) Renal disease (high risk)

Severe injury (high risk)

Neuropsychiatric and sensory disease (low risk)

Gastrointestinal disease (low risk) Gynecological disease (low risk)

CD-9-CM code

50-159, 197.4*, 197.6*-197.8*

62, 197.0*, 197.3*

130-432, 433.0, 434, 436

391-392.0, 393-398, 402, 404, 410-429

110-414

410

180-487

550-553 574-576

. | 41, 147, 150–151, 156–159, 162.2–164, 171.5, 171.8–171.9, 172.8, 179, 180.9, 183, 189.0, 191, 192.2, 195, 196.1-196.2, 196.8, 197.0-197.2*, 197.4-197.8*, 198.0-198.1*, 198.3-198.8*, 199*, 200-208

410, 415, 421.0, 421.9, 423.0-423.2, 427.4-427.5, 441.0-441.1, 441.3, 441.5, 444.1, 447.2, 785.

397, 398.91#, 416, 425.0, 425.2-425.4, 426.89#, 428, 429.5-429.9, 441.2, 442.2, 453.2

390, 393, 401, 402.00#, 402.10#, 402.90#, 405, 411.1-411.8, 413-414, 417, 420.9, 422.9, 425.1, 426.1-426.7, 426.81*, 427.0, 427.2-427.3, 427.6, 427.8-427.9, 429.4, 433.1-433.9, 435, 435, 442.0-442.1, 442.3-442.9, 447.0-447.1,

447.3-447.9, 448, 451, 453.1, 453.8-453.9, 454-455, 456.3-456.6, 457.0-457.1, 457.9, 458.0

452, 453.0, 456.0, 456.20*, 530.4, 530.8, 531.1–531.2, 531.5–531.6, 532.1–532.2, 532.5–532.6, 533.1–533.2, 533.5–533.6, 534.1–534.2, 534.5–534.6, 551, 557.0, 558.2, 560.0, 560.2, 560.89#, 567, 569.83#, 570, 571.2, 571.5, 571.6, 572.2-572.4, 572.8

250.2-250.3*, 260-263, 273, 275.4, 276.0, 276.2, 276.4-276.5, 277.3

481, 482.0–482.1, 482.3–482.9, 485–486, 500–505, 507, 508.0, 510, 511.1–511.9, 512–516.0, 518.0–518.1, 518.4, 518.5, 519.2-519.3

453.3, 584-586

018, 027.0, 036, 038, 040, 046–048, 049.0–049.1, 054, 060, 070.0, 070.2, 070.4, 070.6, 112, 116–117, 136.3, 320 (except

806.0-806.1, 807.4, 851-853, 861.0-861.1, 861.3, 864, 868-869, 875.1, 901-902, 933.1, 934, 946.3-946.5, 948.4-948.9,

290-292, 293.1-293.9, 294-309, 311-319, 331.1-331.9 (except 331.7), 332-334 (except 334.4), 337 (except 337.1), 340, 342-343, 344.2-344.9, 345.0-345.2, 345.4-345.9, 346-347, 348.0, 350-358 (except 357.1-357.4, 358.1), 360-389 614-627 (except 619.1)

520-527, 528.2, 528.4-528.9, 529, 530.0-530.3, 530.5-530.7, 530.9, 531.3, 531.7-531.9, 532.3, 532.7-532.9, 533.3, 533.7-533.9, 534.7, 534.9, 536-536, 537.1-537.2, 537.5-537.6, 537.81, 537.9, 540-543, 550, 552, 558.1, 558.9, 562-566, 568, 569.0-569.2, 569.4-569.6, 569.9, 571.8-571.9, 574.00#, 574.10#, 574.20#, 574.30#, 574.40#, 574.50#, 575.5-575.6, 575.9, 576.0, 576.0, 576.0, 577.1, 577.9, 579

Diagnostic category

Urologic disease (low risk)

Cutaneous and musculoskeletal conditions (low risk)

ICD-9-CM code

582–583, 588–589, 590.1, 590.8, 590.9, 592, 594–595, 596.0, 596.2–596.5, 596.7–596.9, 597–598, 599.1–599.9, 600–606, 607.0–607.1, 607.3–607.9, 608.0–608.3, 608.8–608.9

680-686, 690-698, 700-706, 707.1-707.9, 708-709, 710.0, 710.2-710.9, 714.0-714.4, 714.89, 714.9, 715-744, 746-758, 800.0, 800.5, 801.0, 801.5, 802, 805, 806.1-806.9, 807.00-807.06, 807.1-807.3, 807.5-807.6, 808-819, 822-838, 839.1-839.9, 840-848, 850, 854.00-854.04, 854.06-854.09, 861.2, 862, 867.1, 867.3-867.9, 870-874, 875.0, 876-887,

NOTES: ICD-9-CM is International Classification of Diseases, 9th Revision, Clinical Modification. * indicates that a code was not used for coding underlying cause of death. # indicates that cause of death was coded only to the 4th digit; therefore, the code at the 4-digit level was used to group deaths by cause. 890-897, 905-929

Appendix C. Total and post-admission deaths

Table C-1. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan and rural counties: United States, 1986

Percent of deaths occurring within 30 days of a hospital admission	48.0 47.0 50.6	6 4 4 4 6	4 4 4 0.0.4 0.0.0	4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	4 4 4 ຄ.ຄ.ຄ. ສະຄະຄຸ	48.0 42.9	45.1	4.4. a.a.o.	41.3 42.8	4 4 4 4	4 4 4 4 4 6 6 4 5 8 4 5
Number of deaths non-HMD enrollees	1,450,036 1,054,900 395,136	349,862 310,178 39,684	87,484 75,156 12,328	8 4 8 8 8 9 9 4 1 8	6,427 4,212 2,215	3,59 6,13 9,086 6,13 8,59	38,468 883,468	7,294	20,633 19,984 649	262,378 235,022 27,356	120,419 107,801 12,618
Area of residence	United States Metropolitan Rural	Mortheast Metropolitan Rural	Rew England Metropolitan Rerai	Maine Metropolitan Reral	Mew Kampshire Metropolitas Rersi	Vermont Metropolitan Rural	Massachusetts Metropolitas Rural	Rectropolites	Connecticut Metropolitan Rural	Middle Atlantic Metropolitan Reral	Mew York Metropolitan Rarai

See note at end of table.

Table C-1. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan and rural counties: United States, 1986

Percent of deaths occurring within 30 days of a hospital addission	48.1	F 4 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4 4 4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	4 4 4 0 0 0 0 0 0 0 0 0	4 4 4 6 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 . 0 .	49.7 49.0 52.1	8.0.4 0.0.4 0.0.0	0.04 0.03 0.03 0.03	4 4 4 8 6 9 8 4 9	42.8 89.8 7.5
Number of deaths	50,579 50,579	91,380 76,642 14,738	383,028 246,275 134,753	264,603 194,437 70,166	71,217 55,558 15,659	34,828 22,461 12,367	71,257 54,236 17,021	55,090 42,477 12,613	32,211 19,705 12,506	118,425 53,838 64,587	23,652 12,100 11,552
Area of residence	Mew Jersey Metropolitan Rural	Pennsylvania Metropolitan Rural	Morth Central Metropolitan Rural	East Morth Central Metropolitan Reral	Ohio Metropolitan Rural	Indiana Metropolitan Rural	III inois Metropolitan Rural	Elchinas Estropolitas Reral	Wisconsin Estropolitan Rural	West Morth Central Metropolitan Reral	Minnesota Metropolitan Rerai

Table C-1. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan and rural counties: United States, 1986

Percent of deaths occurring within 30 days of a hospital admission	4 4 4 6 8 6 6 6 8 6	50.2 51.5 61.6	50. 544. 52. 86.	51.5 48.4 52.4	4 4 70 9 70 70 9 80	5.4 1.84 8.5.6	50. 5.86. 5.8.4.	4 4 4 7 7 7 7 7 7 9 9 9 9 9 9 9 9 9 9 9	45.1 50.3	0.04 4.00 0.4	80 8
Number of deaths	21,223 7,288 13,935	36,771 21,772 14,999	4,063 1,147 2,916	4.000 4.000 4.000 4.000	11,181 3,775 7,406	16,641 6,721 9,920	484,266 306,554 177,712	247,698 173,895 73,803	3,937 2,435 1,502	24,635 22,170 2,465	4,018 4,018 0
Area of residence	Iowa Metropolitan Rural	Eissouri Metropolitan Rural	Morth Dakota Metropolitan Rural	South Dakota Metropolitan Rerai	Mebraska Metropolitan Rural	Kansas Metropolitan Rural	South Metropolitan Rural	South Atmentic	Delaware Metropolitan Rural	Mary land Metropolitan Rural	District of Col. Metropolitan Rural

See note at end of table.

Table C-1. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan and rural counties: United States, 1986

Percent of destruction within 30 days of a rospital addission	47.0 45.0 50.3	ሚ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ	4 4 4 4 4 6 6 6 6	4 4 4 6 4 4 80 1- 70	50.00 50.00 50.00	449.3 50.71	5.04 5.06 5.00 5.00	83 4 18 80 4 14	52.7 49.4 58.3	5.00 6.00 6.00 6.00 6.00	เล เล เล เล เล เล เล ส
Number of deaths non-HMD enrollees	31,117	14,187 5,237 8,950	36,411 18,122 18,289	17,906 10,138 7,768	31,727 17,580 14,147	83,760 74,655 9,105	97,077 48,568 48,509	24,360 10,299 14,061	30,580 19,031 11,549	25,611 15,602 10,009	16,526 3,636 12,890
Area of residence	Virginia Metropolitan Refai	Methorolitan	Morts Carolina Metropolitas Reral	South Carolina Metropolitan Reral	Georgia Metropolitan Rural	Florida Metropolitan Rural	East South Central Metropolitan Rural	Kentucky Metropolitan Rerel	Tennessee Wetropolitan Rural	Alabama Metropolitan Rural	Ectropolites Retropolites

See note at end of table.

Table C-1. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan and rural counties: United States, 1986

Percent of deaths occurring within so days of a	55.0 55.0 55.0 8.0 8.0	80 € € €	52.4	52.7 50.1 55.0	10 4 10 1. 00 4 4 00 80	4 4 4 8 8 8 8 8 8 8 8	44.7 44.3	444	4 0 4 0.03 0.4 0.4	ນ 4 ຄ ພ.ສ 4 ວິຍ ຄ	# # # 80.000 80.000
Number of deaths	139,491	17,578	23,259	20,955	77,699	232,880	58,452	4,80	n 4	2,142	18,642
	84,091	5,636	14,770	9,790	53,895	189,893	28,437	9887	00.00	607	10,443
	55,400	11,942	8,489	11,165	28,804	42,987	28,015	9884	11.00.00	1,535	9,199
Area of residence	West South Central	Arkansas	Louisiana	Oklahoma	Texas	West	Mountain	Montana	Idaho	Myomins	Colorado
	Metropolitan	Metropolitan	Metropolitan	Metropolitan	Metropolitan	Metropolitan	Metropolitan	Metropolitan	Metropolitan	Metropolitas	Metropolitan
	Rural	Rural	Rural	Rurai	Rural	Rural	Rurai	Reral	Rural	Mersi	Refal

See note at end of table.

Table C-1. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan and rural counties: United States, 1986

Percent of deaths occurring within so days of a rospital admission	48.5 52.4 52.4	444 2.0.7 2.0.0	**************************************	4.5.4 8.4.8	444 888 880	4 4 4 	40.0 38.5 42.5	446.7 7.38	37.88 .0.00 .0.00	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Number of deaths	6,100 2,567 3,588	16,165 3,946	6,088 4,470 1,618	8,294 918	174,428 154,456 19,972	23,344 17,795 5,549	1.00 .00 .00 .00 .00 .00 .00 .00 .00 .00	131,114 124,011 7,103	805 272 533	3,552 2,531 1,021
Area of residence	Mew Mexico Metropolitan Reral	Arizona Metropolitan Rerai	Utan Metropolitan Reral	Mevada Metropolitas Rera-	Pacific Metropolitan Rerai	Estrinatos Setropolitas Reisl	Oresos Estropolitas Rerai	California Metropolitan Reral	Alaska Metropolitan Rerai	metropolites merse

MOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMOs) are included. Statistical System. SOURCE: Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System.

Table C-2. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986

Area of residence	Number of deaths non-HMO enrollees	Percent of deaths occurring within 30 days of a hospital admission
United States	1,450,036	0. 0. 0.
Northeast New England	87,484	4 5.0 0.0
Maine Bangor, ME Lewiston-Auburn, ME Portland, ME	8,584 947 755 2,889	4444
Mew Hampshire Hanchester, MH	6,427 2,529 1,683	4 4 5 5 . 2 8 6 . 0 . 2 8 6 . 0 . 3
Vermont Burlington, VT	3,598	43.0
Massachusetts Boston, MA Rew Bedford, MA Pittsfield, MA Springfield, MA	40,948 25,172 3,513 1,240 4,191 4,347	644444 6.744 6.74 6.74 6.74
Rhode Island Providence, RI	7,294	ቀ ቀ ይ ያ
Connecticut Bridgeport, CT Hartford, CT New Haven, CT New London, CT	20,633 4,958 8,109 1,461	44484 11088 64488

See note at end of table.

Table C-2. Total number of deaths for aged Medicare earollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986

Percent of deaths occurring within 30 days of a hospital admission	4.64	44.6									o q	h	;		o,	5.		(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	0.0	46.3	47.1	50.3	46.6	48.2	50.0	47.7	4.04	୍ କ	52.6	44.6	0.44	54.3	39.1	47.9	51.1	43.2	46.1	51.7	46.6	9*++	41.1
Number of deaths non-MMO enrollees	262,378	120,419	6,453	2,032	7.712	761	803	16 184	700 4	404	7000	1.0	1,626	5,962	4,129	2,734	50,579	2,765	8,947	808,8	4.840	8,110	11,842	2,051	486	Cac		1.243	1.417	12.00	040.4	2.190	2,546	33.049	17,835	2.570	6,662	1.008	40	016	2.546
Area of residence	Middle Atlantic	¥LO≻ SUE	A-bank MY	Bisphanton, EX	D=++=0	>3 AL:E-W	VI 40 00 00	>3 A-(44:0 ::4443			28	- 1		Nonsester, 27	Sylaces. 27	Utica-Rome, NY	Med Jersey	글.	aic.	Jersey City, NJ	Biddlesex, EL	Monmouth-Ocean, MJ	Zewark, Ku	*	Vineland, MJ	32 44 64 64 64 64 64 64 64 64 64 64 64 64		A. +. 0 = 0 = 0 = 0	Design County of		AG GTICKLITER	Johnstown, PA	Lancaster, PA	DE-AG GITTO DELICE	PIttsburgs. PA	Read : DA	Scrastion. PA	AG SOLES	State College, PA	Williamsbort, PA	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4

See note at end of table.

Table C-2. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986

Table C-2. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay nospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986

Percent of deaths occurring within 30 days of a hospital admission	4 4 4 4 4 4 4 4 4 2 7 3 8 4 8 5 2 3 9 8 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ወ ቀ ቀ ቀ ቀ ቀ ወ ພ ሀ ቀ ቀ ቀ ወ ሥ ሰ ቀ መ ቀ ወ ሥ ሰ ቀ ወ ወ		4 44848 44848888 8 66868 6688888 8 87688 8876
Number of deaths non-HMD enrollees	55,090 1,044 1,207 26,021 2,517	3,449 1,192 1,785 2,342	32;211 1,654 966 920 1,553 1,073 611 611	118 23,425 23,652 21,004 21,004 21,004 21,004 21,004 21,004 21,004 21,004 21,004
Area of residence	Michigan Ann Arbor, MI Battle Creek, MI Benton Harbor, MI Detroit, MI	Grand Papids, MI Lackson, MI Kalamazoo, MI Lansins, MI Mcskegon, MI Sasinsw, MI	Wisconsin Percent WI Green Bay, WI Caresona, WI Kenchosa, WI Madisson, WI Malitauree, WI Malitauree, WI Malitauree, WI Malitauree, WI Malitauree, WI Malitauree, WI Malitauree, WI Malitauree, WI	West Morth Central Minnesota Duluth, MN-WI Minnespolis, MN-WI Rochester, MN St. Cloud, MN Cedar Rapids, IA Davenport, IA-IL Des Moines, IA Iowa City, IA Sioux City, IA Waterloo, IA

See note at end of table.

Table C-2. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986

Percent of deaths occurring within 30 days of a hospital admission	8484444 004000 00000 00000	50.5 47.8 41.7	51.5 47.1	4 4 4 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	51.08 8.99.08 0.00.1	50.2	4 4 8 8 8 11	4 4 70 60 4 70 4 90 9 11 80 12	80 ea .
Number of deaths non-NMD enrollees	36,771 1,422 1,091 8,637 813 16,205 1,489	4,063 385 7331 411	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11,181 1,048 3,196	16,641 289 1,007 2,492	484,266	3,037	24.635 13.981 933 765	4,018
Area of residence	Missouri Cotumbia, MO Joplin, MO Kansas City, MO-KS St. Joseph, MO St. touis, MO-IL Springfield, MO	Morth Dakota Bismarck, ND Fargo, ND-MN Grand Forks, ND	South Dakota Rapid City, SD Sioux Falls, SD	Mebraska Lincoln, ME Omens, ME-IA	Kansas Lawrence, KS Topeka, KS Wichita, KS	South South Atlantic	Detaware Wifmington, DE-NJ-MD	Maryland Baltimore, MD Cumberland, MD-WV Hagerstown, MD	District of Col.

See note at end of table.

Table C-2. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986

Percent of deaths occurring within 30 days of a hospital admission	444444 77.0.04.0 11.0.4.0	552.5 55.2 55.7 55.7	4004044044 400000000000000000000000000	4 4 4 8 2 4 0 9 2 2 4 7 8 4 6 6 6 6 6 6 6 6	RRRRR 4 4 4 TRRR 7 6 9 4 8 9 1 8 0 1 6 4
Number of deaths non-HMD enrollees	31,117 6683 673 987 5,822 1,675	14.187 1.893 2.362 1.115 1.307	36, 1,2, 1,2, 1,2,5,2 2,9,5,2 6,0,5,3	17,906 843 1,909 2,001 670 3,447	31,727 10,506 11,938 11,493
Area of residence	Virginia Charlottesville, VA Danchle, VA Lynchburg, VA Morfolk, VA Richmond, VA Roanoke, VA	West Virginia Charleston, WV Huntington, WV-KY-OH Parkersburg, WV-OH Wheeling, WV-OH	Ashewille, MC Burlinaton, MC Charlotte, MC Thyettewille, MC Greenboor, MC Lickory, MC Lickory, MC Lickory, MC Naleish-Durham, MC Wilminaton, MC	South Carolina Anderson, SC Charleston, SC Columbia, SC Florence, SC Greenville, SC	Georgia Albany, GA Athens, GA Atlanta, GA Augusta, GA-SC Columbus, GA-AL Macon, GA

See note at end of table.

Table C-2. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-atay hospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986

Percent of deaths occurring within 30 days of a hospital admission	4	52.1	1 (M)	52.7	4.3	6.84	48.1	44.6	46.7	47.4	51.9	48.1	47.8	47.1	8.64	1 (c) 1 (c)	48.2	1 or 1	0.0	8.04	49.7	52.8	er er ur	45.7	40.7	56.0		7.75	. O. C.	55.0	54.4	50.8	a. c.	n. 0	
Number of deaths non-HMD enrollees	83,760	1 005	0.010	8 708	2,565	1.776	503	925	4.416	2.622	2.074	10,183	876	468	4.630	C. C.	1000	2 2 4 5	066	16,564	6,137	770,79	036	11.000		532	000	000,000	714	8004	2,934	3,807	5,422	0,130	
Area of residence	4 T. C.	D TO	ع د	. =	Every F	THE STATE OF THE S	FT. Salton Beach, FL		Lackson FL	Lake-and, FL				Ocala FI	Ortando, Fi		Descape Cloy.				West Palm Beach, FL	East South Central	3 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	>	- >			-	とう・ヒー ・もののこうごうじょ シン・エー・モー・・コー・・スポート・レー・・スポート・レー・・スポート・レー・・スポート・レー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・		JOSHBON CITY, TRIVA	=	Membris, TR-AR-MS		4 - 4 - 4
																																			-

See note at end of table.

Table C-2. Total number of deaths for aged Medicare earollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986

Percent of deaths occurring within 30 days of a hospital admission	ოო ოო ო ო		88 48 48 48 48 48 48 48 48 48 48 48 48 4	N ಈ N N ಈ N N N N N M H N 80 80 N H C F R N 80 80 41 N R C	7.100 7.100 7.000 7.000 9.000
Number of deaths	25,611 6,749 6,200 665 837 784 2,733 1,636	16,526 1,034 1,916 139,491	17,578 637 1,134 2,789 684	23,259 2,078 2,071 754 879 2,101	20,955 4,455 4,765
Area of residence	Alabama Anniston, AL Birningham, AL Dothan, AL Florence, AL Gadsden, AL Mobile, AL Mobile, AL Tuscalossa, AL	Mississippi Biloxi-Gulfport, MS Jackson, MS Pascagoula, MS	Arkansas Fayetteville, AR Fort Smith, AR-OK Little Rock, AR Pine Bluff, AR	Louisiana Alexandria, LA Baton Rouse, LA Houma-Thibodaux, LA Lafayette, LA Lake Charles, LA Nonroe, LA New Orieans, LA Shreveport, LA	Oklahoma Enid, Ok Lawton, OK Oklahoma City, OK Tulsa, OK

See note at end of table.

Table C-2. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986

x x x x x x x x x x x x x x x x x x x	X X X X X X X X X X X X X X X X X X X	Area of residence	Number of deaths	Cocurring Within 80 days of a mospital admission
X X X X X X X X X X X X X X X X X X X	TX	Texas	77,699	51.4
X X X X X X X X X X X X X X X X X X X	TX	Abilese, TX	717	50 A
X X X X X X X X X X X X X X X X X X X	TX	A TOLLION X	0 0 0 0	4.0
X X X X X X X X X X X X X X X X X X X	TX T	Devision +	2	
X X X X X X X X X X X X X X X X X X X	TX TX 1,020 TX TX 1,020 1,030 1,084 4,444 1,084 1,084 1,084 1,202 1,202 1,203 1,203 1,203 1,203 1,203 1,203 1,203 1,30	Series TX	676	80.00
X X X X X X X X X X X X X X X X X X X	TX	D-1020-00	1,020	51.00 10.00
X X X X X X X X X X X X X X X X X X X	TX TX TX 10,084 10,084 10,084 11,148 11,148 11,148 12,084 13,082 13,082 13,082 13,082 13,082 13,083 13,083 13,083 14,083 16	× × × × × × × × × × × × × × × × × × ×	367	54.8
* * * * * * * * * * * * * * * * * * *	TX 10.084 10.0884 10.0884 10.0884 10.0884 10.0884 10.0884 10.0884 10.0884 10.0884 10.0884 10.0884 10.0884 10.0882 10.0884 10.0884 10.0884 10.0884 10.0884 10.0884 10.0882 10.0884		1.444	52.4
**************************************	TX 10,038 10,038 1,148 1,1		9,443	0.64
X X X X X X X X X X X X X X X X X X X	TX	El Paso, TX	1,773	46.1
101 X X X X X X X X X X X X X X X X X X	11,084 1,148 1	Fort Worth, TX	5,284	47.0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TX 10,032 1,148 1,202 1,202 1,202 1,202 1,359 1,325 1,32	Galveston, TX	~	m (
7 X X X X X X X X X X X X X X X X X X X	TX		0	20.2
TX TX TX-AR T	TX TX TX TX Son, TX Son, TX Son, TX TX TX TX Son, TX Son, EBO Son, EBO So		100 m	4.74
TX T	TX TX 1,202 1	Laredo, TX	M	30 ·
TX T	TX 1,202 1,202 1,202 1,202 1,259 1,550 1,359 1,250 1,350 1,325	Longview, TX	1.1	# · ·
TX T	TX 1,202 359 359 1x-AR TX-AR TX-AR TX-AR TX-AR TX-AR TX-AR 1,202 377 1,325 1s, TX 232,880 232,880 232,880 58,452 4,807 TA 5,301 TD 5,301 TA 5,301 TA 5,301	Lubbock, TX	E 60	# (P)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TX 1 TX 1 Son, TX 1 Son, TX 1 Son, TX 1 325 1 Son 1	McAllen, TX	1,202	D 1
TX T	TX TX TX-AR TX-AR TX-AR TX-AR TX-AR TX-AR TX-AR TX-AR TX-AR TX-AR TX-AR TX-AR TX-B60 232,680 58,452 5,301 TD 5,301 TD 5,301 TA 5,301	Zi Pearola	D (1	~
TX T	ison, TX 5.530 IX-AR TX 863 IS, TX 825 IS, TX 232,880 S8,452 S8,452 FMT 450 S930 S8,452 S9452 TMT 450 S952		- W	⊃.e
S, TX	S. TX 232, 880 1,325	VE VERBEIO TA	M C	
S, TX 232 11 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	S, TX 232, 863 1,325 1,325 1,325 863 863 863 863 863 863 10 10 10 10 10 10 10 10 10 10	400	25.0	(A)
S, TX 232 232 58 58 1D 5	S, TX 1,325 1,325 377 232,880 58,452 4,807 4,807 5,301 1D 5,301 2,142 362 362	XAAR	000	53.0
232 232 58 1D	377 1,325 830 232,880 58,452 4,807 4,807 5,301 1D 5,301 1D 853 362	E 	000	54.7
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See note at end of table.

Table C-2. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986

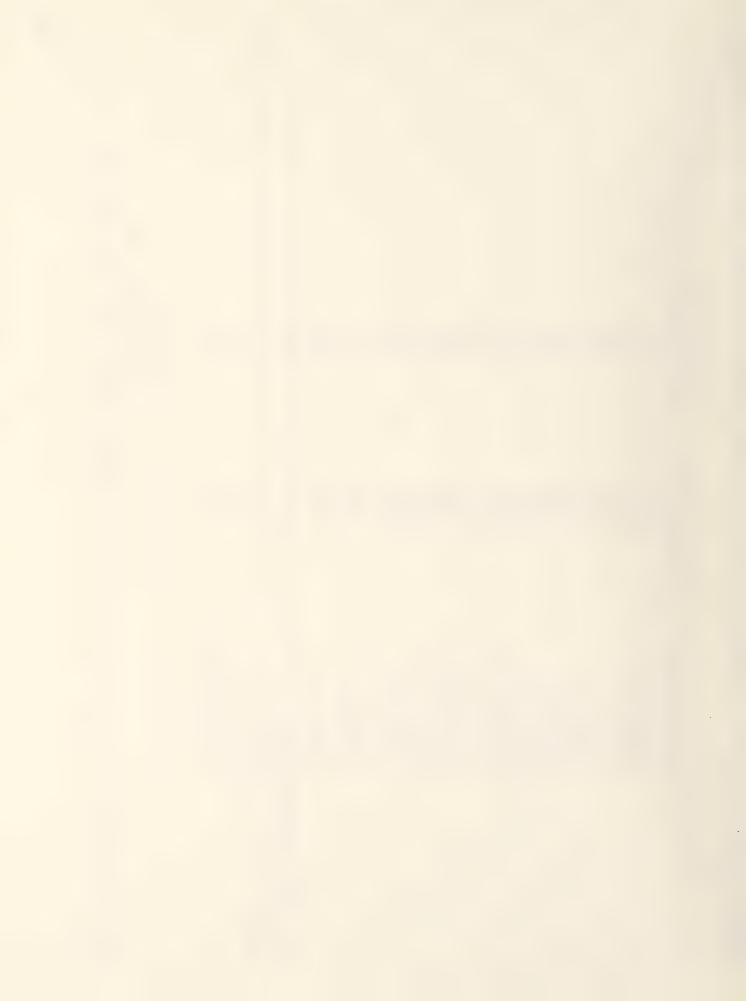
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Colorado Bouider-Longmont, CO Colorado Springs, CO Denver, CO Fort Collins, CO Greeley, CO	New Mexico Albuquerque, NM Las Cruces, NM Santa Fe, NM Arizona Phoenix, AZ Tucson, AZ	Provo-Orem, UT Salt Lake City, UT Nevada Las Vegas, NV Reno, NV	Washington Be-lingham, WA Bremerton, WA Olympis, WA Richland, WA Seattle, WA Iacoma, WA Vancouver, WA	Oregon Eugene, OR Medford, OR Portland, OR Salem, OR
	13,642 42. 00t, CO 703 39. 1,208 40. 6,362 43. CO 581 48.	13,642 5, CO	13,642 5, CO	13,642 5, CO

Table C-2. Total number of deaths for aged Medicare enrollees and percent of deaths occurring within 30 days of a short-stay hospital admission, by census region and division, State, and metropolitan statistical area: United States, 1986 Percent of deaths occurring within

30 days of a hospital admission	46.7	50.7	52.2	48.6	46.8	47.7	52.4	47.3	47.0	46.3	47.5	4.64	45.3	44.3	43.6	41.7	40.2	43.5	40. 3	42.2	49.2	45.0	8.64	8.6	37.3	39.7	4 2 4	43.2
Number of deaths non-HMD enrollees	131.114	8.791	2,310	1,285	2,988	38,304	656	1,699	9,835	2,487	959	10,708	6,122	1,516	10,350	9,124	5,238	1,899	1,291	2,287	2,198	1,987	1.435	642	8008	272		2,531
Area of residence	California	Assessing Santa Ass. CA	Barersfield. CA	C.	Fresso, CA	Los Angeles, CA	Merced, CA	Modesto, CA	Dakland, CA	Dxnard-Ventura, CA	Redding. CA	Riverside, CA	Sacremento, CA	Salinas, CA	San Diego. CA	San Francisco, CA	San Jose, CA	Santa Barbara, CA	Santa Cruz. CA	Santa Rosa, CA	Stockton, CA	Vallejo. CA	VISSI IS CA	Yuba City, CA		Anchorage, AK		Honolelu, HI

NOTE: Only aged Medicare enrollees who did not have end stage renal disease and were not members of health maintenance organizations (HMDs) are included.

Health Care Financing Administration, Bureau of Data Management and Strategy: Data from the Medicare Statistical System. SOURCE:



Appendix D. Coefficients of variation for hospitalizations and mortality rates

here, the CV is defined as the unweighted mortality rates divided by the unweighted The variability of discharge rates and standard deviation of the discharge and coefficients of variation (CVs). As used statistical areas (MSAs) is measured by mortality rates among metropolitan

performed across all 365 MSAs and rural mean of the rates. The calculations are areas. CVs are pure numbers, enabling

comparisons of the area-to-area variability of rates across procedures: The higher the CV, the greater the variability.

Table D-1. Coefficients of variation for 26 diagnostic groupings: United States, 1986

	Discharges	30-day post-admission deaths per 1,000:	admission r 1,000:	Deaths per
Diagnostic grouping	enrollees	Discharges	Enrollees	persons
All discharges	0.15	60.0	0.13	0.08
All cancers	0.13	0.12	0.18	0.10
Malignant neoplasms of digestive organs				
and peritoneum	0.15	0.18	0.22	0.16
Malignant neoplasms of trachea, bronchus,				
and lung	0.27	0.20	0.28	0.19
Stroke	0.16	0.15	0.21	0.19
Heart disease	0.17	0.11	0.17	0.14
Ischemic heart disease	0.19	0.16	0.20	0.19
Acute myocardial infarction	0.18	0.14	0.22	0.23
Pneumonia and influenza	0.28	0.17	0.29	0.26
Hernia of abdominal cavity	0.26	0.80	0.80	1.03
Disease of gallbladder	0.20	0.46	0.49	0.57
Fracture of neck of femur	0.13	0.32	0.35	ļ
Cancer (high risk)	0.18	0.12	0.18	0.12
Severe acute cardiovascular disease (high risk)	0.16	0.12	0.18	0.22
Severe chronic cardiovascular disease (high risk)	0.22	0.14	0.25	0.36
Circulatory disease (low risk)	0.21	0.24	0.27	0.24
Gastrointestinal catastrophies (high risk)	0.22	0.26	0.30	0.30
Metabolic and electrolyte disorders (high risk)	0.34	0.25	0.40	0.41
Pulmonary disease (high risk)	0.26	0.15	0.27	0.23
Renal disease (high risk)	0.35	0.29	0.47	0.39
Infectious disease (high risk)	0.28	0.21	0.37	0.44
Severe injury (high risk)	0.36	0.59	0.63	1.58
Neuropsychiatric and sensory disease				
(low risk)	0.28	0.44	0.46	0.45
Gynecological disease (low risk)	0.22	1.70	1.67	2.88
Gastrointestinal disease (low risk)	0.23	0.28	0.32	0.42
Urologic disease (low risk)	0.21	0.50	0.57	0.56
Cutaneous and musculoskeletal conditions				
(low risk)	0.19	0.29	0.32	0.28

Discharge rates

varied from 0.13 for all cancer and fracture CVs for discharge rates were calculated injury (high risk), as shown in Table D-1. for selected diagnostic categories. They of the neck of femur to 0.36 for severe

fracture of the neck of femur may reflect the categories also exhibited low coefficients of the decision to hospitalize the patient. The variation (0.16-0.19), indicating relatively admission, with little discretion regarding The low coefficient of variation for fact that this is usually an emergency heart disease and stroke diagnostic little variability for these common conditions.

renal disease (high risk), 0.35, and metabolic discharge rate low in areas where outpatient relatively high variability was exhibited for In addition to severe injury (high risk), and electrolyte disorders (high risk), 0.34. outpatient basis more frequently in some areas than in others, making the hospital tendency to treat this condition on an abdominal cavity (0.26) may reflect a The high variability of hernia of the treatment is used.

30-day post-admission death rates

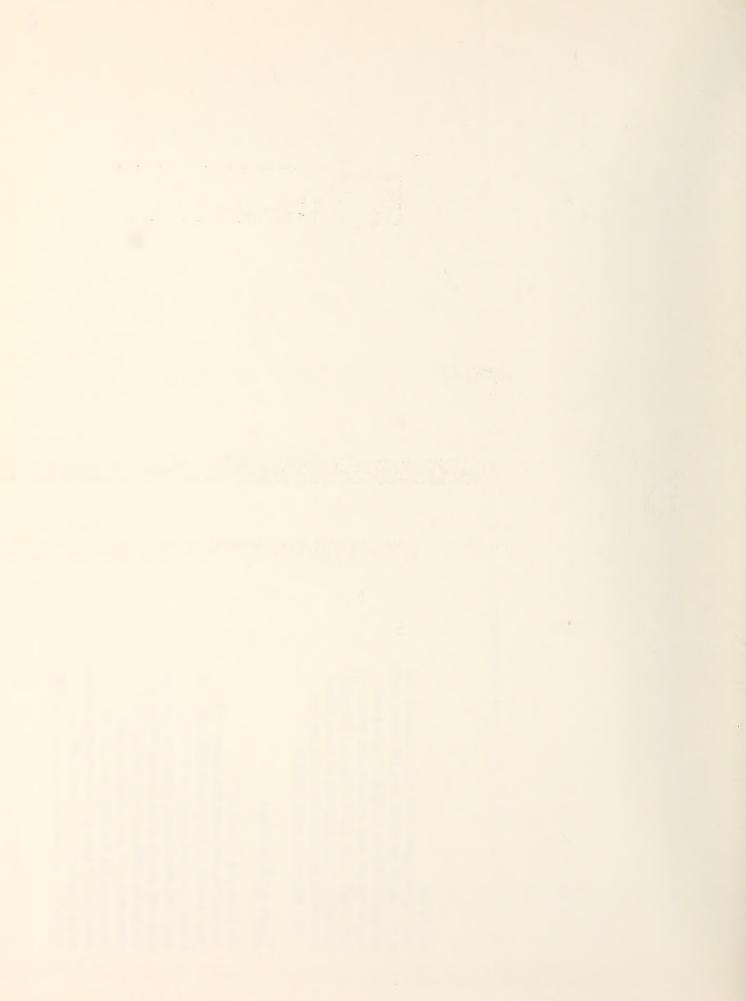
The diagnostic category with the highest 1,000 discharges was gynecological disease CV for 30-day post-admission deaths per (low risk). The CV for this diagnostic

category (1.70) was more than twice as high as any other CV, likely reflecting the instability of rates for gynecological disease because of the low number of deaths associated with this condition. Other diagnostic categories with relatively high CVs were hernia of the abdominal cavity, 0.80, and severe injury (high risk), 0.59. The lowest CVs were for all cancer (0.12) and heart disease (0.11). Cancer (high risk) and severe acute cardiovascular disease (high risk) also had CVs of 0.12.

Total death rates

For deaths per 1,000 persons, gynecological disease (low risk) had the highest CV, 2.88, followed by severe injury (high risk), 1.58. These high CVs probably reflect the fact that relatively few deaths are attributed to these conditions. The lowest CVs were for all cancer and for cancer (high risk). Heart disease also had a relatively low CV (0.14).





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